OK TO ENTER: /C.J./

05/19/2010AMENDMENT UNDER 37 C.F.R. § 1.116Attorney Docket No.: Q74855

Application No.: 10/812,075

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1.-56. (canceled).

57. (currently amended): The compound according to claim 2 A compound selected from the group consisting of:

N²-(cis-4-{[(5-bromo-1H-indol-3-yl)methyl]amino}cyclohexyl)-N⁴,N⁴-dimethylpyrimidine-2.4-diamine:

 $N^2-[cis-4-(\{[5-(4-fluorophenyl)pyridin-3-yl]methyl\}amino)cyclohexyl]-N^4,N^4-dimethylpyrimidine-2,4-diamine; \\$

ethyl 4,6-dichloro-3-{[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}-cvclohexyl)amino|methyl}-1H-indole-2-carboxylate:

 $N^2\text{-(cis-}4-\{[(2,6\text{-dimethoxybenzyl})\text{amino}]\text{methyl}\}\text{cyclohexyl})-N^4,N^4-\\$ dimethylpyrimidine-2.4-diamine;

 $N^2-(cis-4-\{[(2-ethoxybenzyl)amino]methyl\}eyclohexyl)-N^4, N^4-dimethylpyrimidine-2, 4-diamine:$

 $N^2-[cis-4-(\{[(4-methoxy-1-naphthyl)methyl]amino\}methyl)cyclohexyl]-N^4,N^4-dimethylpyrimidine-2,4-diamine;$

 $N^2-[cis-4-(\{[(5-methoxy-1H-indol-3-yl)methyl]amino\}methyl)cyclohexyl]-N^4,N^4-dimethylpyrimidine-2,4-diamine;$

 $N^2-[cis-4-(\{[(2-methoxy-1-naphthyl)methyl]amino\}methyl)cyclohexyl]-N^4,N^4-dimethylpyrimidine-2,4-diamine;$

4-bromo-2-({[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}-cyclohexyl)methyl]amino}methyl)-6-methoxyphenol;

 $N^2-[cis-4-(\{[(5-bromo-1H-indol-3-yl)methyl]amino\} methyl)cyclohexyl]-N^4, N^4-dimethylpyrimidine-2, 4-diamine;$

 $N^2\hbox{-(cis-}4-\{[(2,4-dimethoxybenzyl)amino]methyl}\ cyclohexyl)-N^4,N^4-dimethylpyrimidine-2,4-diamine;$

 $N^4, N^4-dimethyl-N^2-(cis-4-\{[(2,3,4-trimethoxybenzyl)amino]methyl\}-\\ cyclohexyl)pyrimidine-2,4-diamine;$

 $N^2 - (cis-4-\{[(3-ethoxy-4-methoxybenzyl)amino]methyl\} cyclohexyl)-N^4, N^4-dimethylpyrimidine-2, 4-diamine; \\$

 $N^4,N^4-dimethyl-N^2-(cis-4-\{[(\{3-[4-(trifluoromethyl)phenyl]-1H-pyrazol-4-yl\}methyl)amino]methyl\}cyclohexyl)pyrimidine-2,4-diamine;$

 $N^4, N^4-dimethyl-N^2-(cis-4-\{[(3,4,5-trimethoxybenzyl)amino]methyl\}-\\ cyclohexyl)pyrimidine-2,4-diamine;$

 $\label{lem:condition} 4-(\{[\text{cis-4-}\{[\text{4-(dimethylamino)pyrimidin-2-yl]amino}\} cyclohexyl)-\\ \\ \text{methyl}]\\ \text{amino}\\ \text{methyl})-2-\text{iodo-6-methoxyphenol};$

4-({[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)methyl}amino}methyl)-2.6-dimethylphenol;

 $N^2\text{-(cis-4-\{[(5\text{-bromo-2,4-dimethoxybenzyl)amino]methyl}\}cyclohexyl)-}N^4, N^4-dimethylpyrimidine-2,4-diamine;}$

 $N^2\text{-(cis-4-{[[5-bromo-2-methoxybenzyl)amino]methyl}}cyclohexyl)-N^4, N^4-dimethylpyrimidine-2, 4-diamine;$

 N^2 -[cis-4-({[4-(diethylamino)benzyl]amino}methyl)cyclohexyl]- N^4 , N^4 -dimethylpvrimidine-2.4-diamine:

 $N^2-[cis-4-(\{[(9-ethyl-9H-carbazol-3-yl)methyl]amino\}methyl)cyclohexyl]-N^4,N^4-dimethylpyrimidine-2,4-diamine;$

 $N^2-(cis-4-\{[(4-isopropoxybenzyl)amino]methyl\} cyclohexyl)-N^4, N^4-dimethylpyrimidine-\\ 2.4-diamine:$

 N^2 -(cis-4-{[(3,3-diphenylprop-2-en-1-yl)amino]methyl}cyclohexyl)- N^4 , N^4 -dimethylpyrimidine-2,4-diamine;

4-({[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)methyl}amino}methyl)-2-ethoxyphenol;

 $N^2-\{cis-4-[(\{[4-(dimethylamino)-1-naphthyl]methyl\}amino)methyl]-cyclohexyl\}-N^4,N^4-dimethylpyrimidine-2,4-diamine;$

 $N^4, N^4-dimethyl-N^2-(cis-4-\{[(2,4,6-trimethoxybenzyl)amino]methyl\}-\\ cyclohexyl)pyrimidine-2,4-diamine;$

 $N^2\hbox{-(cis-4-{[(5-bromo-2-ethoxybenzyl)amino]}methyl}\ cyclohexyl)-N^4,N^4-dimethylpyrimidine-2,4-diamine;$

 $N^2\text{-(cis-4-{[[2,4-dimethoxy-3-methylbenzyl)amino]methyl}}cyclohexyl)-N^4, N^4-dimethylpyrimidine-2,4-diamine;}$

 $N^2-(cis-4-\{[(2,5-diethoxybenzyl)amino]methyl\}cyclohexyl)-N^4, \\ N^4-dimethylpyrimidine-2, 4-diamine;$

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 $N^2\mbox{-(cis-4-{[(2,4-diethoxybenzyl)amino]methyl}}\ \ cyclohexyl)-N^4,N^4-dimethylpyrimidine-2,4-diamine;$

N²-(cis-4-{[(3,5-dibromo-2-methoxybenzyl)amino]methyl}cyclohexyl)-N⁴,N⁴-

dimethylpyrimidine-2,4-diamine;

N⁴.N⁴-dimethyl-N²-(cis-4-{[(2.4.5-triethoxybenzyl)aminolmethyl}-

cyclohexyl)pyrimidine-2,4-diamine;

 $N^4, N^4-dimethyl-N^2-(cis-4-\{[(2,4,5-trimethoxybenzyl)amino]methyl\}-(cis-4-\{[(2,4,5-trimethoxybenzyl)amino]methyl\}-(cis-4-\{[(2,4,5-trimethoxybenzyl)amino]methyl\}-(cis-4-\{[(2,4,5-trimethoxybenzyl)amino]methyl\}-(cis-4-\{[(2,4,5-trimethoxybenzyl)amino]methyl\}-(cis-4-\{[(2,4,5-trimethoxybenzyl)amino]methyl\}-(cis-4-\{[(2,4,5-trimethoxybenzyl)amino]methyl\}-(cis-4-\{[(2,4,5-trimethoxybenzyl)amino]methyl\}-(cis-4-\{[(2,4,5-trimethoxybenzyl)amino]methyl\}-(cis-4-\{[(2,4,5-trimethoxybenzyl)amino]methyl]-(cis-4-\{[(2,4,5-trimethoxybenzyl)amino]methylamino]methylamino[[(2,4,5-trimethoxybenzyl)amino]methylamino[[(2,4,5-trimethoxybenzyl)amino]methylamino[[(2,4,5-trimethoxybenzyl)amino[[(2,4,5-trimethoxybenzyl)amino]methylamino[[(2,4,5-trimethoxybenzyl)amino[[(2,4,5-trimethoxybenzyl)amino[[(2,4,5-trimethoxybenzyl)amino[[(2,4,5-trimethoxybenzyl)amino[[(2,4,5-trimethoxybenzyl)amino[[(2,4,5-trimethoxybenzyl)amino[[(2,4,5-trimethoxybenzyl)amino[[(2,4,5-trimethoxybenzyl)amino[$

cyclohexyl)pyrimidine-2,4-diamine;

 $N^2-\{cis-4-(\{[2-(allyloxy)benzyl]amino\}methyl)cyclohexyl]-N^4, \\ N^4-dimethylpyrimidine-2.4-diamine:$

 $N^4, N^4 \hbox{-dimethyl-} N^2 \hbox{-[cis-4-(\{[(1-methyl-1H-indol-3-yl)methyl]amino}\}-1]}$

methyl)cyclohexyl]pyrimidine-2,4-diamine;

 $N^2-[cis-4-(\{[(7-methoxy-1,3-benzodioxol-5-yl)methyl]amino\} methyl)-cyclohexyl]-\\ N^4,N^4-dimethylpyrimidine-2,4-diamine;$

 $N^2\hbox{-(cis-4-{[(3-bromo-4,5-dimethoxybenzyl)amino]methyl}}\ cyclohexyl)-N^4,N^4-dimethylpyrimidine-2,4-diamine;$

 $N^2\hbox{-}(cis-4-\{[(4-methoxy-3-methylbenzyl)amino]methyl\}cyclohexyl)-N^4,N^4-methylbenzyl)$

dimethylpyrimidine-2,4-diamine;

 $N^2\hbox{-(cis-4-{[(2-bromo-4,5-dimethoxybenzyl)amino]}methyl}\ cyclohexyl)-N^4,N^4-methyl$

dimethylpyrimidine-2,4-diamine;

 $N^2\hbox{-(cis-4-\{[(3,4\hbox{-dimethoxybenzyl)amino]methyl}\} cyclohexyl)-}N^4\hbox{-}N^4\hbox{-}$

dimethylpyrimidine-2,4-diamine;

 $N^2 - (cis-4-\{[(4-methoxy-2,5-dimethylbenzyl)amino]methyl\} cyclohexyl) - N^4, N^4-dimethylpyrimidine-2, 4-diamine;$

3-[[4-({[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)methylamino}methyl)phenyll(methyl)amino]propanenitrile:

 $N^2-\{cis-4-[(4-[(4-bromobenzyl)oxy]benzyl\}amino)methyl]cyclohexyl\}-N^4,N^4-dimethylpyrimidine-2,4-diamine;$

 $N^2\text{-(cis-4-}\{[(3,5\text{-dibromo-2-ethoxybenzyl})amino]methyl\}cyclohexyl)-N^4,N^4-\\$ dimethylpyrimidine-2,4-diamine;

 $N^2-[4-(4-bromo-2-trifluoromethoxy-benzyl) a mino-cyclohexyl]-N^4, \\ N^4-dimethyl-pyrimidine-2, \\ 4-diamine;$

 $N^2-\{cis-4-[2-(4-bromo-2-trifluoromethoxy-phenyl)-ethylamino]-cyclohexyl\}-N^4, N^4-dimethyl-pyrimidine-2, 4-diamine; and$

 $N^2-\{cis-4-[(4-bromo-2-trifluoromethoxy-benzyl)amino-methyl]-cyclohexyl\}-N^4, N^4-dimethyl-pyrimidine-2, 4-diamine;$

or a pharmaceutically acceptable salt thereof.

58. (previously presented): The compound according to claim 57 selected from the group consisting of:

ethyl 4,6-dichloro-3-{[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}-cyclohexyl)amino]methyl}-1H-indole-2-carboxylate;

 $N^2-[cis-4-(\{[(4-methoxy-1-naphthyl)methyl]amino\}methyl)cyclohexyl]-N^4, \\ N^4-dimethylpyrimidine-2, \\ 4-diamine;$

 $N^2-[cis-4-(\{[(2-methoxy-1-naphthyl)methyl]amino\}methyl)cyclohexyl]-N^4,N^4-dimethylpyrimidine-2,4-diamine;$

4-bromo-2-({[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}-cyclohexyl)methyl]amino}methyl)-6-methoxyphenol;

 $N^2-[cis-4-(\{[(5-bromo-1H-indol-3-yl)methyl]amino\}methyl)cyclohexyl]-N^4,N^4-dimethylpyrimidine-2,4-diamine;$

 $N^4, N^4-dimethyl-N^2-(cis-4-\{[(2,3,4-trimethoxybenzyl)amino]methyl\}-\\ \\ cyclohexyl)pyrimidine-2,4-diamine;$

 N^2 -(cis-4-{[(3-ethoxy-4-methoxybenzyl)amino]methyl}cyclohexyl)- N^4 , N^4 -dimethylpyrimidine-2,4-diamine;

 $N^4,N^4-dimethyl-N^2-(cis-4-\{[(\{3-[4-(trifluoromethyl)phenyl]-1H-pyrazol-4-yl\}methyl)amino]methyl\}cyclohexyl)pyrimidine-2,4-diamine;$

4-({[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)methyl]amino}methyl)-2-iodo-6-methoxyphenol;

4-({[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)methyl]amino}methyl)-2,6-dimethylphenol;

 $N^2\hbox{-(cis-}4-\{[(5\hbox{-bromo-}2,4\hbox{-dimethoxybenzyl})amino]methyl\}\ cyclohexyl)-N^4,N^4-\\$ $dimethylpyrimidine-2,4\hbox{-diamine};$

 N^2 -(cis-4-{[(5-bromo-2-methoxybenzyl)amino]methyl}cyclohexyl)- N^4 , N^4 -dimethylpyrimidine-2,4-diamine;

 $N^2-[cis-4-(\{[(9-ethyl-9H-carbazol-3-yl)methyl]amino\}methyl)cyclohexyl]-N^4, N^4-dimethylpyrimidine-2, 4-diamine;$

 N^2 -(cis-4-{[(3,3-diphenylprop-2-en-1-yl)amino]methyl}cyclohexyl)- N^4 , N^4 -dimethylpyrimidine-2,4-diamine;

N⁴,N⁴-dimethyl-N²-(cis-4-{[(2,4,6-trimethoxybenzyl)amino]methyl}-cvclohexyl)nyrimidine-2,4-diamine:

 $N^2\text{-(cis-4-}\{[(5\text{-bromo-2-ethoxybenzyl})\text{amino}]\text{methyl}\}\text{cyclohexyl})-N^4,N^4-\\$ dimethylpyrimidine-2,4-diamine;

 $N^2\text{-(cis-4-}\{[(2,4\text{-dimethoxy-3-methylbenzyl})amino]methyl\}cyclohexyl)-N^4,N^4-\\$ dimethylpyrimidine-2,4-diamine;

 $N^2 - (cis-4 - \{[(2,5 - diethoxybenzyl)amino]methyl\} cyclohexyl) - N^4, N^4 - dimethylpyrimidine \\ 2,4 - diamine;$

 $N^2\hbox{-(cis-}4\hbox{-}\{[(3,5\hbox{-dibromo-}2\hbox{-methoxybenzyl})amino]methyl}\}\ cyclohexyl)-N^4,N^4-\\ dimethylpyrimidine-2,4\hbox{-diamine};$

 $N^4,N^4-dimethyl-N^2-(cis-4-\{[(2,4,5-triethoxybenzyl)amino]methyl\}-\\ cyclohexyl)pyrimidine-2,4-diamine;$

 $N^2-[cis-4-(\{[2-(allyloxy)benzyl]amino\}methyl)cyclohexyl]-N^4, N^4-dimethylpyrimidine-2, 4-diamine; \\$

 $N^2-[cis-4-(\{[(7-methoxy-1,3-benzodioxol-5-yl)methyl]amino\}methyl)-cyclohexyl]-\\ N^4,N^4-dimethylpyrimidine-2,4-diamine;$

 $N^2\text{-(cis-4-}\{[(3\text{-bromo-4,5-dimethoxybenzyl})amino]methyl\}cyclohexyl)-N^4, N^4-dimethylpyrimidine-2, 4-diamine;$

 $N^2-\{cis-4-[2-(4-bromo-2-trifluoromethoxy-phenyl)-ethylamino]-cyclohexyl\}-N^4,N^4-dimethyl-pyrimidine-2,4-diamine; and$

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N²-{cis-4-[(4-bromo-2-trifluoromethoxy-benzyl)amino-methyl]-cyclohexyl}-N⁴,N⁴-

dimethyl-pyrimidine-2,4-diamine;

or a pharmaceutically acceptable salt thereof.

59.-62. (canceled).

63. (currently amended): The compound according to claim 2-A compound selected from the group consisting of:

N-(cis-4-{[4-(dimethylamino)nyrimidin-2-yl]amino}cyclohexyl)-3-methoxybenzamide:

3-bromo-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-benzamide;

5-carboxamide;

3-chloro-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-benzamide;

 $4\text{-}chloro\text{-}N\text{-}(cis\text{-}4\text{-}\{[4\text{-}(dimethylamino)pyrimidin\text{-}2\text{-}yl]amino}\}cyclohexyl)\text{-}benzamide;}$

 $\hbox{$4$-chloro-N-(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\}cyclohexyl)-3-width}\\$

nitrobenzamide:

3,5-dichloro-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}-

cyclohexyl)benzamide;

3.4-dichloro-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}-

cyclohexyl)benzamide;

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yllamino}cyclohexyl)-2.2-diphenylacetamide:

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-3,4-difluorobenzamide;

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-3,5-difluorobenzamide;

 $N-(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\}cyclohexyl)-3-fluoro-5-(trifluoromethyl)benzamide;$

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-4-methyl-3nitrobenzamide:

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-3-nitrobenzamide;

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-2-phenoxybutanamide;

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-3-methylbenzamide;

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-3-

(trifluoromethoxy)benzamide;

4-bromo-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-3methylbenzamide;

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-3-iodobenzamide;

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-2,5-dimethyl-3-

furamide:

3-chloro-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-4-fluorobenzamide;

 $N-(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\} eyclohexyl)-3,5-dimethoxybenzamide;$

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-3,5-

bis(trifluoromethyl)benzamide;

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-4-fluoro-3methylbenzamide;

2,5-dichloro-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}-cyclohexyl)thiophene-3-carboxamide;

1-benzyl-3-tert-butyl-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}-cyclohexyl)-1H-pyrazole-5-carboxamide;

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-2-(1-naphthyl)acetamide:

2-(4-chlorophenoxy)-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}-cyclohexyl)acetamide;

l-(4-chlorophenyl)-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}-cvclohexyl)cvclopentanecarboxamide;

 $3\hbox{-}(2\hbox{-chloro-}6\hbox{-fluorophenyl})\hbox{-}N\hbox{-}(\hbox{cis-}4\hbox{-}\{\hbox{[4-}(dimethylamino)pyrimidin-}2\hbox{-}10$

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-4-fluoro-3-

yl]amino}cyclohexyl)-5-methylisoxazole-4-carboxamide;

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-5-methyl-2-phenyl-2H-1.2.3-triazole-4-carboxamide:

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-2-(4-methoxyphenoxy)-5-nitrobenzamide:

 $N-(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\} cyclohexyl)-2-phenoxyacetamide;\\$

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-quinoxaline-2-

carboxamide:

(trifluoromethyl)benzamide;

 $N-(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\} cyclohexyl)-3-\\ (trifluoromethyl)benzamide;$

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-2-(pentafluorophenoxy)acetamide;

 $2\hbox{-}(3\hbox{-}chlorophenoxy)\hbox{-}N\hbox{-}(cis-4\hbox{-}\{[4\hbox{-}(dimethylamino)pyrimidin-}2\hbox{-}10\hbox{-}$

yl]amino}cyclohexyl)acetamide;

3-(2,6-dichlorophenyl)-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-5-methylisoxazole-4-carboxamide;

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-2phenoxynicotinamide;

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-2-(4-methylphenoxy)nicotinamide;

 $\label{eq:N-constraint} N-(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\}cyclohexyl)-4- \\ [(dipropylamino)sulfonyl]benzamide;$

2-(4-chlorophenoxy)-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-2-methylpropanamide;

2-(2,3-dihydro-1-benzofuran-5-yl)-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-1,3-thiazole-4-carboxamide;

3-tert-butyl-1-(2,4-dichlorobenzyl)-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-1H-pyrazole-5-carboxamide;

6-chloro-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-2H-chromene-3-carboxamide;

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-2-(2-thienyl)-1,3-thiazole-4-carboxamide;

5-(4-chloro-2-nitrophenyl)-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-2-furamide;

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-5-iodo-2-furamide:

 $N-(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\}cyclohexyl)-5-(4-methyl-2-nitrophenyl)-2-furamide:$

 $N-(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\} cyclohexyl)-5-nitrothiophene-2-carboxamide;$

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-3-methyl-4-nitrobenzamide:

 $N- (cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\} cyclohexyl)-3-methoxy-4-nitrobenzamide:$

1-benzyl-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-1H-indole-3carboxamide;

3-acetyl-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-benzamide;

 $5-bromo-N-(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\}cyclohexyl)-2-furamide;\\$

5-(4-chlorophenyl)-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}-cyclohexyl)-2-

4,5-dibromo-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}-cyclohexyl)thiophene-2-carboxamide;

2-(3,5-di-tert-butyl-4-hydroxyphenyl)-N-(cis-4-{[4-(dimethylamino)-pyrimidin-2-yl]amino}eyclohexyl)acetamide;

 $N^2, N^6 \hbox{-dibenzoyl-N-(cis-4-} \\ [4-(dimethylamino)pyrimidin-2-yl] a mino} \\ cyclohexyl) \\ lysinamide;$

furamide;

3-(dimethylamino)-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}-cvclohexyl)benzamide;

4,5-dibromo-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}-cyclohexyl)-2furamide:

 $\label{eq:N-condition} N-(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\}\ cyclohexyl)-2-(1H-indol-3-yl)acetamide;$

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-2-(5-methyl-2-phenyl-1.3-thiazol-4-yl)acetamide:

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-2-(1H-indol-3-yl)-4-oxo-4-phenylbutanamide;

4-(4-bromophenyl)-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}-cyclohexyl)-2-(1H-indol-3-yl)-4-oxobutanamide;

3,5-dichloro-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}-cyclohexyl)-2-[(3-phenylprop-2-ynoyl)amino]benzamide;

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-2-(1-methyl-1H-indol-3-yl)-4-(4-methylphenyl)-4-oxobutanamide;

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino} cyclohexyl)-2-methyl-1-(3-morpholin-4-ylpropyl)-5-phenyl-1H-pyrrole-3-carboxamide;

 $N-(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\} cyclohexyl)-4-(4-nitrophenyl) butanamide;$

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-2-(2-phenyl-1H-indol-3-yl)acetamide;

 $N^2-benzoyl-N^5-(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\}-cyclohexyl)-N^1,N^1-dipropylglutamamide;$

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-3-phenoxybenzamide;

3-benzoyl-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}-cyclohexyl)benzamide;

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-2-(ethylthio)-2,2-diphenylacetamide;

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-N'-[(1R)-1-(1-naphthyl)ethyl]phthalamide;

(2S)-2-(3-benzoylphenyl)-N-(cis-4-{[4-(dimethylamino)pyrimidin-2yllamino}cyclohexyl)propanamide:

 $\label{eq:N-condition} $$N'-(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\}cyclohexyl)-N,N-bis[(1S)-1-phenylethyl]phthalamide;$

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-2-{(1E)-5-fluoro-2-methyl-1-[4-(methylsulfinyl)benzylidene]-1H-inden-3-yl}acetamide;

 $N-(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\} cyclohexyl)-2-[4-(2-thienylcarbonyl)phenyl]propanamide;$

 $\label{lem:condition} 3-(benzyloxy)-N-(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\}-cyclohexyl)-4-methoxybenzamide;$

 $N-(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\} cyclohexyl)-2-methyl-1,5-diphenyl-1\\ H-pyrrole-3-carboxamide;$

1-{2-[(2-chloro-6-fluorobenzyl)thio]ethyl}-N-(cis-4-{[4-(dimethylamino)-pyrimidin-2yl]amino}cyclohexyl)-2-methyl-5-phenyl-1H-pyrrole-3-carboxamide;

 $N\hbox{-}(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino}\} cyclohexyl)-2-phenoxybenzamide;$

 $N-(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\} cyclohexyl)-2-phenylquinoline-4-carboxamide;$

2-[4-(4-chlorophenyl)-2-phenyl-1,3-thiazol-5-yl]-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)acetamide;

 $N-(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\}cyclohexyl)-1-[(4-methylphenyl)sulfonyl]-1H-pyrrole-3-carboxamide;$

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-5-(3-nitrophenyl)-2furamide;

 $\label{lem:condition} 3-chloro-N-(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\}cyclohexyl)-4- \\ (isopropylsulfonyl)-5-(methylthio)thiophene-2-carboxamide;$

 $N-(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\}cyclohexyl)-3-iodo-4-\\ \\ (isopropylsulfonyl)-5-(methylthio)thiophene-2-carboxamide;$

 $N- (cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\} eyclohexyl)-5-nitrothiophene-3-carboxamide;$

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-1-methyl-4-nitro-1Hpyrrole-2-carboxamide;

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-4-nitrobenzamide;

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-3,5-dimethyl-4-nitrobenzamide;

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-2-mesityl-2oxoacetamide:

3,5-di-tert-butyl-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}-cyclohexyl)-4-hydroxybenzamide;

4-chloro-N-[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)methyllbenzamide;

(2E)-N-[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-methyl]-3phenylacrylamide;

4-chloro-N-[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-methyl]-3-nitrobenzamide:

 $\label{lem:condition} 2 - (4 - chlorophenyl) - N - [(cis-4 - \{[4 - (dimethylamino)pyrimidin-2 - yl]amino) - cyclohexyl) methyl] acetamide;$

3,5-dichloro-N-[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}-cyclohexyl)methyl]benzamide;

3,4-dichloro-N-[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}-cyclohexyl)methyl]benzamide;

 $\label{eq:N-loss} N-\{(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\}cyclohexyl)methyl]-2,2-diphenylacetamide;$

2,4-dichloro-N-[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}-cyclohexyl)methyl]-5-fluorobenzamide;

 $\label{eq:N-leading-$

N-[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)methyl]-2phenylbutanamide;

N-[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)methyl]-2-(3-methoxyphenyl)acetamide;

N-[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)methyl]-2-(4-methoxyphenyl)acetamide;

N-[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)methyl]-3,5bis(trifluoromethyl)benzamide;

 $\label{lem:condition} (2E)-N-[(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\} cyclohexyl)-methyl]-3-(4-nitrophenyl)acrylamide;$

 $\label{lem:continuous} 2\mbox{-}(2\mbox{-bromophenyl})\mbox{-N-[(cis-4-\{[4\mbox{-}(dimethylamino)pyrimidin-2\mbox{-}yl]amino}-cyclohexyl)methyl]acetamide;$

N-{(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)methyl]-2-(propylthio)nicotinamide;

N-[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)methyl]-2-(1-naphthyl)acetamide;

 $\label{eq:N-loss} N-[(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\}cyclohexyl) methyl]-9-oxo-9H-fluorene-4-carboxamide;$

N-[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)methyl]-2,4,6-trimethylbenzamide;

2,4,6-trichloro-N-[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}-cyclohexyl)methyl]benzamide;

(2E)-3-(2-chlorophenyl)-N-[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)methyl]acrylamide;

N-[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)methyl]-2-(2,3,6-trichlorophenyl)acetamide;

 $N-[(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\} cyclohexyl) methyl]-2, 3-diphenylpropanamide;$

N-[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)methyl]-5-iodo-2furamide:

(2E)-N-[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-methyl]-3-(3-nitrophenyl)acrylamide:

N-[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)methyl]-3-oxoindane-1carboxamide:

2-benzyl-N-[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}eyclohexyl)-methyl]benzamide;

2,2-bis(4-chlorophenyl)-N-[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)methyl]acetamide;

 $N-[(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\}cyclohexyl)methyl]-3-methyl-4-nitrobenzamide;\\$

N-[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)methyl]-3-methoxy-4nitrobenzamide;

N-[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)methyl]-2-[2-(trifluoromethoxy)phenyl]acetamide;

 $N-[(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\} cyclohexyl) methyl]-9H-xanthene-9-carboxamide; \\$

 $\label{lem:continuous} 2-(1-benzothien-3-yl)-N-[(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\}cyclohexyl)methyl]acetamide;$

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N-[cis-4-(4-dimethylamino-pyrimidin-2-ylamino)-cyclohexyl]-2-(4-fluoro-phenoxy)nicotinamide;

N-[cis-4-(4-dimethylamino-pyrimidin-2-ylamino)-cyclohexyl]-C-(ethyl-phenyl-amino)-acetamide:

 $\label{continuous} C-[cis-(4-chloro-phenyl)-ethyl-amino]-N-[4-(4-dimethylamino-pyrimidin-2-ylamino)-cyclohexyl]-acetamide;$

2-(3,4-difluoro-phenyl)-N-[cis-4-(4-dimethylamino-pyrimidin-2-ylamino)-cyclohexyl]acetamide:

4-chloro-N-[cis-4-(4-dimethylamino-pyrimidin-2-ylamino)-cyclohexyl]-3-fluorobenzamide;

5-bromo-N-[cis-4-(4-dimethylamino-pyrimidin-2-ylamino)-cyclohexyl]-nicotinamide;

3-chloro-4-fluoro-N-[cis-4-(4-methylamino-pyrimidin-2-ylamino)-cyclohexyl]benzamide;

N-[cis-4-(4-dimethylamino-pyrimidin-2-ylamino)-cyclohexyl]-4-fluoro-benzamide;

3-chloro-N-[cis-4-(4-dimethylamino-pyrimidin-2-ylamino)-cyclohexyl]-5-fluoro-benzamide;

N-[cis-4-(4-dimethylamino-pyrimidin-2-ylamino)-cyclohexyl]-3,4,5-trifluoro-benzamide;
N-[cis-4-(4-dimethylamino-pyrimidin-2-ylamino)-cyclohexylmethyl]-3,4-difluoro-benzamide:

2-(3,4-dichloro-phenoxy)-N-[cis-4-(4-dimethylamino-pyrimidin-2-ylamino)-cyclohexyl]-acetamide;

N-[cis-4-(4-dimethylamino-pyrimidin-2-ylamino)-cyclohexyl]-2-(3-methoxy-phenoxy)-acetamide; and

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N-[cis-4-(4-dimethylamino-pyrimidin-2-ylamino)-cyclohexyl]-C-(ethyl-phenyl-amino)-acetamide;

or a pharmaceutically acceptable salt thereof.

64. (previously presented): The compound according to claim 63 selected from the group consisting of:

3-bromo-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-benzamide;

 $N-(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\} cyclohexyl)-2,1,3-benzoxadiazole-5-carboxamide;$

3-chloro-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-benzamide;

4-chloro-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-3-

nitrobenzamide;

3,5-dichloro-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}-cyclohexyl)benzamide;

 $3, 4-dichloro-N-(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\}-1, 4-dichloro-N-(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino]-1, 4-dichloro-N-(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino]-1, 4-dichloro-N-(cis-4-(dimethylamino)pyrimidin-2-yl]amino]-1, 4-dimethylamino]-1, 4$

cyclohexyl)benzamide;

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-3,4-difluorobenzamide;

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-3-nitrobenzamide;

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-3-

(trifluoromethoxy)benzamide;

4-bromo-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-3methylbenzamide;

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-3-iodobenzamide;

3-chloro-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-4-

fluorobenzamide;

bis(trifluoromethyl)benzamide;

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-3,5-dimethoxybenzamide:

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-3,5-

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-4-fluoro-3methylbenzamide:

2-(4-chlorophenoxy)-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}-cyclohexyl)acetamide;

 $N-(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\} cyclohexyl)-4-fluoro-3-(trifluoromethyl)benzamide;$

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-5-methyl-2-phenyl-2H-1,2,3-triazole-4-carboxamide;

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-2-(4-methoxyphenoxy)-5-nitrobenzamide;

 $N-(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\} eyelohexyl)-quinoxaline-2-carboxamide;$

2-(3-chlorophenoxy)-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}-cvclohexyl)acetamide:

3-(2,6-dichlorophenyl)-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-5-methylisoxazole-4-carboxamide;

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-2-(4methylphenoxy)nicotinamide;

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-4-[(dipropylamino)sulfonyl]benzamide;

2-(2,3-dihydro-1-benzofuran-5-yl)-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-1,3-thiazole-4-carboxamide;

 $N-(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\} cyclohexyl)-2-(2-thienyl)-1, 3-thiazole-4-carboxamide;$

5-(4-chloro-2-nitrophenyl)-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yllamino}cyclohexyl)-2-furamide;

 $N- (cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\} cyclohexyl)-3-methoxy-4-nitrobenzamide; \\$

 $5\text{-}bromo\text{-}N\text{-}(cis\text{-}4\text{-}\{[4\text{-}(dimethylamino)pyrimidin\text{-}2\text{-}yl]amino}\}cyclohexyl)\text{-}2\text{-}furamide;}$

5-(4-chlorophenyl)-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}-cyclohexyl)-2-furamide;

2-(3,5-di-tert-butyl-4-hydroxyphenyl)-N-(cis-4-{[4-(dimethylamino)-pyrimidin-2-yl]amino}cyclohexyl)acetamide;

4,5-dibromo-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}-cyclohexyl)-2-furamide:

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-2-(1H-indol-3-yl)-4oxo-4-phenylbutanamide;

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-2-(1-methyl-1H-indol-3-yl)-4-(4-methylphenyl)-4-oxobutanamide;

 $N-\mbox{(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\}} \mbox{ cyclohex yl]-2-(2-phenyl-1H-indol-3-yl)acetamide;}$

 $N-(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\} cyclohexyl)-2-(ethylthio)-2,2-diphenylacetamide;$

 $\label{eq:N-condition} $$N'-(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\}cyclohexyl)-N,N-bis[(1S)-1-phenylethyl]phthalamide;$

3-(benzyloxy)-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}-cyclohexyl)-4-methoxybenzamide;

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-2-methyl-1,5-diphenyl-1H-pyrrole-3-carboxamide;

1-{2-[(2-chloro-6-fluorobenzyl)thio]ethyl}-N-(cis-4-{[4-(dimethylamino)-pyrimidin-2yl]amino}eyclohexyl)-2-methyl-5-phenyl-1H-pyrrole-3-carboxamide;

2-[4-(4-chlorophenyl)-2-phenyl-1,3-thiazol-5-yl]-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)acetamide;

 $N-(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\} cyclohexyl)-5-nitrothiophene-3-carboxamide;$

 $N-(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\} cyclohexyl)-1-methyl-4-nitro-1 H-pyrrole-2-carboxamide;$

3,5-di-tert-butyl-N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}-cyclohexyl)-4hvdroxybenzamide;

 $N-[(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\}cyclohexyl)methyl]-2,2-diphenylacetamide; \\$

 $N-[(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\} cyclohexyl)methyl]-2-phenylbutanamide; \\$

(2E)-N-[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-methyl]-3-(4-nitrophenyl)acrylamide;

 $N-[(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\} cyclohexyl) methyl]-2-(1-naphthyl) acetamide; \\$

N-[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)methyl]-2-(2,3,6-trichlorophenyl)acetamide;

(2E)-N-[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-methyl]-3-(3-nitrophenyl)acrylamide;

 $N-[(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\}cyclohexyl)methyl]-3-oxoindane-1-carboxamide; \\$

2,2-bis(4-chlorophenyl)-N-[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)methyl]acetamide;

 $N-[(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\}cyclohexyl)methyl]-3-methyl-4-nitrobenzamide; \\$

N-[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)methyl]-3-methoxy-4nitrobenzamide:

 $N-[(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\}cyclohexyl)methyl]-2-[2-(trifluoromethoxy)phenyl]acetamide;$

 $N-[(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\} cyclohexyl) methyl]-9H-xanthene-9-carboxamide; \\$

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2-(1-benzothien-3-yl)-N-[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)methyl]acetamide;

N-[cis-4-(4-dimethylamino-pyrimidin-2-ylamino)-cyclohexyl]-2-(4-fluoro-phenoxy)nicotinamide;

N-[cis-4-(4-dimethylamino-pyrimidin-2-ylamino)-cyclohexyl]-C-(ethyl-phenyl-amino)-acetamide;

C-[cis-(4-chloro-phenyl)-ethyl-amino]-N-[4-(4-dimethylamino-pyrimidin-2-ylamino)cyclohexyl]-acetamide;

4-chloro-N-[cis-4-(4-dimethylamino-pyrimidin-2-ylamino)-cyclohexyl]-3-fluorobenzamide;

N-[cis-4-(4-dimethylamino-pyrimidin-2-ylamino)-cyclohexyl]-3,4,5-trifluoro-benzamide;

2-(3,4-dichloro-phenoxy)-N-[cis-4-(4-dimethylamino-pyrimidin-2-ylamino)-cyclohexyl]acetamide:

 $N-[cis-4-(4-dimethylamino-pyrimidin-2-ylamino)-cyclohexyl]-2-(3-methoxy-phenoxy)-\\ acetamide; and$

N-[cis-4-(4-dimethylamino-pyrimidin-2-ylamino)-cyclohexyl]-C-(ethyl-phenyl-amino)-acetamide;

or a pharmaceutically acceptable salt thereof.

65-67. (canceled).

68. (currently amended): The compound according to claim 2 A compound selected from the group consisting of:

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-vllamino}cyclohexyl)-N'-mesitylurea;

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-N'-(2,4,6-trichlorophenyl)urca;

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-N'-(2,4,6-tribromophenyl)urea;

 $N-(2,4-dibromo-6-fluorophenyl)-N'-(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\}cyclohexyl)urea;$

 $N-(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\} cyclohexyl)-N'-\\ (diphenylmethyl)urea;$

 $\label{lem:n-decomposition} N-(4-bromo-2,6-dimethylphenyl)-N'-(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\}cyclohexyl)urea;$

 $N-(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\} cyclohexyl)-N'-[1-(1-naphthyl)ethyl]urca;$

 $N-(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\} cyclohexyl)-N'-(3,4,5-trimethoxyphenyl)urea;$

 $\label{lem:n-decomposition} $$N-(4-chloro-2-methylphenyl)-N'-(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino)cyclohexyl)urca;$

N-(5-chloro-2,4-dimethoxyphenyl)-N'-(cis-4-{[4-(dimethylamino)-pyrimidin-2-yl]amino}cyclohexyl)urea;

 $N-(4-bromo-2-methylphenyl)-N'-(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\} cyclohexyl)urea;$

 $\label{eq:N-2-4-1} N-(2,6-dibromo-4-isopropylphenyl)-N'-(cis-4-\{[4-(dimethylamino)-pyrimidin-2-yl]amino\}cyclohexyl)urea;$

 $N-[3-(cyclopentyloxy)-4-methoxyphenyl]-N'-(cis-4-\{[4-(dimethylamino)-pyrimidin-2-yl]amino\}cyclohexyl)urca;$

 $N-\{(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\}cyclohexyl)methyl]-N'-(2,6-dimethylphenyl)urea;$

N-(2,4-difluorophenyl)-N'-[(cis-4-{[4-(dimethylamino)pyrimidin-2-vl]amino}cyclohexyl)methyl]urea;

N-[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)methyl]-N'-(2-ethyl-6methylphenyl)urea;

 $\label{eq:N-constraint} N-[(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\}cyclohexyl)methyl]-N'-(4-fluorophenyl)urea;$

N-[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)methyl]-N'-mesitylurea;

N-[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)methyl]-N'-(2,4,6-trichlorophenyl)urea;

 $N-[(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\} cyclohexyl) methyl]-N'-(2,4,6-tribromophenyl) urea; \\$

 $N-(2,4-dibromo-6-fluorophenyl)-N'-[(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\}cyclohexyl)methyl]urea;$

N-(2,6-diethylphenyl)-N'-[(cis-4-{[4-(dimethylamino)pyrimidin-2-

yl]amino}cyclohexyl)methyl]urea;

 $\label{lem:normalized} N-[2-chloro-6-(trifluoromethyl)phenyl]-N'-[(cis-4-\{[4-(dimethylamino)-pyrimidin-2-yl]amino\}cyclohexyl)methyl]urea;$

 $N-(2-chloro-6-methylphenyl)-N'-[(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\}cyclohexyl)methyl]urea; \\$

N-[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)methyl]-N'-(2-ethyl-6isopropylphenyl)urea;

N-[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)methyl]-N'-(2-isopropyl-6-methylphenyl)urea;

 $N-[(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\}cyclohexyl]) methyl]-N'-(2-methyl-3-nitrophenyl)urea;$

N-[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)methyl]-N'-(2-propylphenyl)urea;

 $\label{eq:N-(2-tert-butyl-6-methylphenyl)-N'-[(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino)eyclohexyl)methyl]urea;}$

N-(2-tert-butylphenyl)-N'-[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)methyl]urea;

 $N-(3-chloro-2-methylphenyl)-N'-[(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\}cyclohexyl)methyl]urea; \\$

 $N-(4-bromo-2,6-difluorophenyl)-N'-[(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\}cyclohexyl)methyl]urea;$

 $N-[4-chloro-2-(trifluoromethyl)phenyl]-N'-[(cis-4-\{[4-(dimethylamino)-pyrimidin-2-yl]amino\}cyclohexyl)methyl]urea;$

 $N-\{(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\} cyclohexyl)methyl]-N-(diphenylmethyl)urea;$

 $N-(4-bromo-2,6-dimethylphenyl)-N'-[(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\}cyclohexyl)methyl]urea; \\$

 $N-[(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\}cyclohexyl)methyl]-N'-(3-methyl-5-phenylisoxazol-4-yl)urea;$

N-(3,5-dichlorophenyl)-N'-[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]-amino}cvclohexyl)methyllurea:

N-(2,3-dichlorophenyl)-N'-[(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]-amino}evclohexyl)methyllurea:

 $N-(2,6-diisopropylphenyl)-N'-[(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]-amino\}cyclohexyl)methyl]urea; \\$

 $N-\{(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\}cyclohexyl)methyl]-N'-(2,3-dimethyl-6-nitrophenyl)urea;$

 $N-(2,6-dibromo-4-fluorophenyl)-N'-[(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\}cyclohexyl)methyl]urea;$

 $N-(2,6-dichlorophenyl)-N'-[(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]-amino\}cyclohexyl)methyl]urea; \\$

 $N-[(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\} cyclohexyl)methyl]-N'-(2-methoxy-5-methylphenyl)urea;$

 $N-[(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\} cyclohexyl)methyl]-N'-(2-methyl-6-nitrophenyl)urea;$

 $N-(3,4-difluor ophenyl)-N'-[(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]-amino\}cyclohexyl)methyl]urea; \\$

 $N-(3,5-difluor ophenyl)-N'-[(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]-amino\}evel ohexyl) methyl lurea; and$

 $N-(3-chloro-4-fluorophenyl)-N'-[(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\}cyclohexyl)methyl]urea; \\$

or a pharmaceutically acceptable salt thereof.

69-71. (canceled).

 (currently amended): The compound according to claim 2 A compound selected from the group consisting of:

N-(4-cyanophenyl)-N'-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}-cyclohexyl)thiourea;

 $N-(2,4-dimethoxyphenyl)-N'-(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]-amino\}cyclohexyl)thiourea; \\$

 $N-(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\} cyclohexyl)-N'-(3,4,5-trimethoxyphenyl) thiourea; \\$

N-(3,4-dimethoxyphenyl)-N'-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)thiourea;

 $\label{lem:no-lambda} N-[4-(dimethylamino)-1-naphthyl]-N'-(cis-4-\{[4-(dimethylamino)-pyrimidin-2-yl]amino\} cyclohexyl) thiourea;$

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-N'-(2,4,6-tribromophenyl)thiourea;

N-(cis-4-{[4-(dimethylamino)pyrimidin-2-yl]amino}cyclohexyl)-N'-mesitylthiourea;

N-(4-bromo-2,6-dimethylphenyl)-N'-(cis-4-{[4-(dimethylamino)pyrimidin-2-yllamino}cyclohexyl)thiourea;

 $N-(5-chloro-2,4-dimethoxyphenyl)-N'-(cis-4-\{[4-(dimethylamino)-pyrimidin-2-yllamino\}cyclohexyl)thiourea;\\$

N-(2,4-dibromo-6-fluorophenyl)-N'-(cis-4-{[4-(dimethylamino)pyrimidin-2yllamino)cyclohexyl)thiourea: and

 $N-(2,4-dichloro-6-methylphenyl)-N'-(cis-4-\{[4-(dimethylamino)pyrimidin-2-yl]amino\}cyclohexyl)thiourea; \\$

or a pharmaceutically acceptable salt thereof.

73-79. (canceled).

80. (currently amended): The compound according to claim 2 A compound selected from the group consisting of:

 $N^2-\{cis-4-[(3,5-dimethoxybenzyl)amino]cyclohexyl\}-N^4,N^4,5-trimethylpyrimidine-2,4-diamine;$

 $N^2-\{cis-4-[(3-bromobenzyl)amino]cyclohexyl\}-N^4,N^4,5,6-tetramethylpyrimidine-2,4-diamine;$

 $N^2-\{cis-4-[(3,4-difluor obenzyl)amino]cyclohexyl\}-N^4,N^4,5,6-tetramethyl pyrimidine-2,4-diamine; and$

 $N^2-[cis-4-(\{6-[(3,4-difluorophenyl)sulfinyl]pyrazin-2-yl\}amino)cyclohexyl]-N^4,N^4,5-trimethylpyrimidine-2,4-diamine;$

or a pharmaceutically acceptable salt thereof.

81. (currently amended): The compound according to claim 2 is: A compound that $\underline{is} \ N^2 - [cis-4-(\{6-[(3,4-difluorophenyl)sulfinyl]pyrazin-2-yl\} amino) cyclohexyl] - N^4, N^4, 5-trimethylpyrimidine-2, 4-diamine;$

or a pharmaceutically acceptable salt thereof.

82.-85. (canceled).

86. (currently amended): The compound according to claim 2 A compound selected from the group consisting of:

 $N-[(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl) methyl]-3,5-bis(trifluoromethyl) benzamide;$

N-[(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}eyclohexyl)methyl]-3,5bis(trifluoromethyl)benzamide;

 $N-[(cis-4-\{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino\} eyelohexyl) methyl]-3, 4-difluorobenzamide;$

3,5-dichloro-N-[(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}cyclohexyl)methyl]benzamide;

 $N-\{(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl) methyl]-3, 4-difluorobenzamide;$

 $N-[(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl) methyl]-3,5-dimethoxybenzamide:$

N-[(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)methyl]-3-fluoro-4-methylbenzamide;

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AMENDMENT UNDER 37 C.F.R. § 1.116Attorney Docket No.: Q74855
Application No.: 10/812,075
      N-I(cis-4-{I4-(dimethylamino)-5-methylpyrimidin-2-yllamino}cyclohexyl)methyll-3-
(trifluoromethyl)benzamide;
      N-[(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)methyl]-3-
(trifluoromethoxy)benzamide:
      4-bromo-N-[(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-
yl]amino}cyclohexyl)methyl]-3-methylbenzamide;
      N-[(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)methyl]-3-
fluoro-4-(trifluoromethyl)benzamide;
      3.5-dichloro-N-[(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-
vllamino) cyclohexyl) methyl lbenzamide;
      3.4-dichloro-N-I(cis-4-{I4-(dimethylamino)-5-methylpyrimidin-2-
yl]amino}cyclohexyl)methyl]benzamide;
      4-chloro-N-[(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-
yl]amino}cyclohexyl)methyl]benzamide;
      4-chloro-N-[(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-
vllamino) cvclohexvl)methvllbenzamide;
      N-[cis-4-({[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}methyl)cyclohexyl]-3,5-
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dimethoxybenzamide;

4-bromo-N-[cis-4-({[4-(dimethylamino)-5-methylpyrimidin-2yllamino}methyl)cyclohexyllbenzamide;

4-bromo-N-[cis-4-({[4-(dimethylamino)-5-methylpyrimidin-2yl]amino}methyl)cyclohexyl]-3-methylbenzamide;

3,5-dichloro-N-[cis-4-({[4-(dimethylamino)-5-methylpyrimidin-2-

yl]amino}methyl)cyclohexyl]benzamide;

yl]amino}methyl)cyclohexyl]benzamide;

 $N-[cis-4-(\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} methyl)cyclohexyl]-3.5-bis(trifluoromethyl)benzamide:$

N-[cis-4-({[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}methyl)cyclohexyl]-3,4-difluorobenzamide:

4-bromo-N-[cis-4-({[4-(dimethylamino)-6-methylpyrimidin-2-

yl]amino}methyl)cyclohexyl]benzamide;

4-bromo-N-[cis-4-({[4-(dimethylamino)-6-methylpyrimidin-2-

yl]amino}methyl)cyclohexyl]-3-methylbenzamide;

 $N- (cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-2-(2-fluorophenoxy) nicotinamide; \\$

N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}cyclohexyl)-3,4,5trimethoxybenzamide;

N-(4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}cyclohexyl)-3nitrobenzamide;

 $N-(cis-4-\{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino\} cyclohexyl)-2, 2-diphenylacetamide;$

N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}cyclohexyl)-4methylbenzamide;

4-chloro-N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-

yl]amino}cyclohexyl)benzamide;

3-chloro-N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-

yl]amino}cyclohexyl)benzamide;

 $N-(cis-4-\{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino\} cyclohexyl)-3, 4-difluorobenzamide:$

N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}cyclohexyl)-3methylbenzamide;

N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}cyclohexyl)-3-methoxybenzamide;

 $N-(cis-4-\{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino\} cyclohexyl)-4-fluorobenzamide;$

 $N\hbox{-}(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}\} cyclohexyl)-3-methylbenzamide;$

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-3methoxybenzamide;

 $\label{eq:N-constraint} N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-4-methylbenzamide;$

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-3, 4-difluorobenzamide;$

3-chloro-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yllamino}cyclohexyl)benzamide;

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-2-(3-methylphenoxy)nicotinamide;

2-(4-bromophenoxy)-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2yl]amino}cyclohexyl)nicotinamide;

2-(4-chlorophenoxy)-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2yl]amino}cyclohexyl)nicotinamide;

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-2-(4-fluorophenoxy)nicotinamide;

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-2-(3-fluorophenoxylnicotinamide:

 $\label{lem:continuous} 2\mbox{-}(2\mbox{-bromophenoxy})\mbox{-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}}\mbox{-gyclohexyl})\mbox{nicotinamide;}$

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-2-(3-methoxyphenoxy) nicotinamide; \\$

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-2-(4-methoxyphenoxy)nicotinamide;

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-2-(4-iodophenoxy)nicotinamide;

 $2-(3,4-dichlorophenoxy)-N-(cis-4-\{[5-methyl-4-(methylamino)pyrimidin-2-yl]amino\}cyclohexyl)acetamide;$

2-(2,3-dichlorophenoxy)-N-(cis-4-{[5-methyl-4-(methylamino)pyrimidin-2-yllamino}cyclohexyl)acetamide;

 $2-[(3,4-difluorophenyl)sulfonyl]-N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\}cyclohexyl)nicotinamide;$

N-(cis-4-{[4-(dimethylamino)-5-ethylpyrimidin-2-yl]amino}cyclohexyl)-3,4difluorobenzamide:

 $N-[cis-4-(\{4-[cthyl(methyl)amino]-5-methylpyrimidin-2-yl\}amino)cyclohexyl]-3, 4-difluorobenzamide;$

 $N-(cis-4-\{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino\}\ eyclohexyl)-3,5-dimethoxybenzamide;$

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-2-(2-methoxyphenoxy)nicotinamide;

2-(2-chlorophenoxy)-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)nicotinamide;

 $\label{lem:condition} 2-(3-chlorophenoxy)-N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\}cyclohexyl)nicotinamide;$

2-(3-bromophenoxy)-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2yl]amino}eyclohexyl)nicotinamide;

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-2-[3-(trifluoromethyl)phenoxy]nicotinamide;

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-2-(3-fluorophenoxy)acetamide;

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-2-(3-methoxyphenoxy)acetamide;

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-2-[3-(trifluoromethyl)phenoxy] acetamide;\\$

2-(3-chlorophenoxy)-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2vllamino)evelohexyl)acetamide;

 $2-[(5-\text{chloropyridin-3-yl}) oxy]-N-(\text{cis-4-}\{[4-(\text{dimethylamino})-5-\text{methylpyrimidin-2-yl}] amino}\} \\ \text{cyclohexyl}) \\ \text{acetamide};$

N-(cis-4-{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino}cyclohexyl)-3,4-difluorobenzamide:

2-(3,4-difluorophenyl)-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-2-hydroxyacetamide;

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-2-hydroxy-2-\\ (4-methoxyphenyl)acetamide;$

2-(2,3-difluorophenyl)-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-2-hydroxyacetamide;

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-2-hydroxy-2-[3-(trifluoromethyl)phenyl]acetamide;

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-2-{[2-(trifluoromethyl)phenyl|sulfinyl|acetamide;

2-[(2-chlorophenyl)sulfinyl]-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)acetamide;

2-[(3-bromophenyl)sulfinyl]-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yllamino}cyclohexyl)acetamide;

2-[(3,4-difluorophenyl)sulfinyl]-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)acetamide;

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-3-(trifluoromethyl)benzamide;

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-3-fluorobenzamide;$

3-bromo-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)benzamide;

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-4-(trifluoromethoxy)benzamide;

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-4-fluorobenzamide;$

 $3,4-dichloro-N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl) benzamide;$

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}eyclohexyl)-3,5-bis(trifluoromethyl)benzamide;

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\}\ eyclohexyl)-3,5-dimethoxybenzamide;$

 $N- (cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} \ cyclohexyl)-2, 4-difluorobenzamide;$

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-2,5-difluorobenzamide;$

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-2,3,4-trifluorobenzamide;

4-chloro-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-

yl]amino}cyclohexyl)benzamide;

3-cyano-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-

yl]amino}cyclohexyl)benzamide;

4-cyano-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-

yl]amino}cyclohexyl)benzamide;

2-[(3,4-dichlorophenyl)sulfinyl]-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)acetamide;

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-2-{[3-(trifluoromethyl)phenyl]sulfinyl}acetamide;

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-2-{[3-(trifluoromethyl)phenyl]sulfonyl}acctamide;

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-2-(isopropylthio)nicotinamide;

2-(tert-butylthio)-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2yl]amino}cyclohexyl)nicotinamide;

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} eyclohexyl)-2-\\ (propylthio)nicotinamide;$

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-3-(methylsulfonyl)benzamide;

N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}cyclohexyl)-3-

fluorobenzamide;

N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}cyclohexyl)-3-(trifluoromethyl)benzamide;

3-cyano-N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-

yl]amino}cyclohexyl)benzamide;

4-cyano-N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-

yl]amino}cyclohexyl)benzamide;

N-(cis-4-{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-

yl]amino}cyclohexyl)benzamide;

yl]amino}cyclohexyl)benzamide;

 $N-(cis-4-\{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino\} cyclohexyl)-3-\\ (trifluoromethyl)benzamide;$

3-cyano-N-(cis-4-{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-

 $N-(cis-4-\{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino\} cyclohexyl)-3-methylbenzamide:$

3-chloro-N-(cis-4-{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-

yl]amino}cyclohexyl)benzamide;

3-bromo-N-(cis-4-{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-

yl]amino}cyclohexyl)benzamide;

 $N-(cis-4-\{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino\} cyclohexyl)-3,5-dimethoxybenzamide;$

 $N-(cis-4-\{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino\} cyclohexyl)-3,5-bis(trifluoromethyl)benzamide;$

3,4-dichloro-N-(cis-4-{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-vilamino}cvclohexyl)benzamide:

N-(cis-4-{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino}cyclohexyl)-4-(trifluoromethoxy)benzamide;

4-cyano-N-(cis-4-{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino}cyclohexyl)benzamide;

N-(cis-4-{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino}cyclohexyl)-4-methylbenzamide;

 $N-(cis-4-\{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino\} cyclohexyl)-4-fluorobenzamide;$

4-chloro-N-(cis-4-{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino}cyclohexyl)benzamide;

N-(cis-4-{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino}cyclohexyl)-2methoxybenzamide;

4-bromo-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-

vl]amino}cvclohexvl)benzamide;

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-4-(trifluoromethyl)benzamide;

N-(cis-4-{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino}cyclohexyl)-3-methoxybenzamide;

5-bromo-N-(cis-4-{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino}cyclohexyl)-2-furamide;

N-(cis-4-{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino}cyclohexyl)-5methylisoxazole-3-carboxamide:

 $2-(3,5-difluor ophenyl)-N-(cis-4-\{[4-(dimethylamino)-5,6-dimethyl pyrimidin-2-yl]amino\} cyclohexyl)-2-hydrox yacetamide;$

N-(cis-4-{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino}cyclohexyl)-2-methyl-1.3-oxazole-4-carboxamide:

 $N-(cis-4-\{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino\} cyclohexyl)-2,6-dimethoxynicotinamide;$

4-bromo-N-(cis-4-{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino}cyclohexyl)benzamide;

 $N-(cis-4-\{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino\}cyclohexyl)-4-\\ (trifluoromethyl)benzamide;$

4-bromo-N-(cis-4-{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino}eyclohexyl)-3-methylbenzamide;

 $N-(cis-4-\{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino\} cyclohexyl)-3-fluoro-4-methylbenzamide;$

 $N-(cis-4-\{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino\} cyclohexyl)-4-fluoro-3-methylbenzamide;$

 $N-(cis-4-\{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino\} cyclohexyl)-3-ethylbenzamide;$

N-(cis-4-{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino}cyclohexyl)-3-(trifluoromethoxy)benzamide;

5-bromo-N-(cis-4-{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino}cyclohexyl)nicotinamide;

 $N-(cis-4-\{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino\} cyclohexyl)-5-methylthiophene-2-carboxamide$

N-(cis-4-{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino}cyclohexyl)-6-(trifluoromethyl)nicotinamide;

 $\label{eq:N-condition} N-(cis-4-\{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino\} cyclohexyl)-3,5-diethoxybenzamide;$

 $\label{eq:N-constraint} N-(cis-4-\{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino\} cyclohexyl)-3-ethoxybenzamide;$

 $N-(cis-4-\{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino\} cyclohexyl)-3-isopropoxybenzamide;$

3,5-dichloro-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)benzamide;

 $\label{lem:condition} \mbox{4-bromo-N-(cis-$4-{[4-(dimethylamino)-5-methylpyrimidin-$2-yl]amino} cyclohexyl)-3-methylbenzamide;}$

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} eyclohexyl)-4-\\ethoxybenzamide;$

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-4-fluoro-3-methylbenzamide;$

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-3-fluoro-4-methylbenzamide;$

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-3-cthylbenzamide;$

N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}cyclohexyl)-3,5-bis(trifluoromethyl)benzamide:

 $N-(cis-4-\{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino\} cyclohexyl)-3-fluoro-4-(trifluoromethyl)benzamide;$

 $N-(cis-4-\{\{4-(dimethylamino)-6-methylpyrimidin-2-yl\}amino\} cyclohexyl)-3-fluoro-5-(trifluoromethyl) benzamide;$

3-chloro-N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino} cyclohexyl)-4-fluorobenzamide;

 $N-(cis-4-\{\{4-(dimethylamino)-6-methylpyrimidin-2-yl\}amino\} cyclohexyl)-4-fluoro-3-methylbenzamide;$

 $N-(cis-4-\{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino\} cyclohexyl)-3-fluoro-4-methylbenzamide;$

3,5-dichloro-N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}cyclohexyl)benzamide;

 $N-(cis-4-\{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino\} cyclohexyl)-3-\\ (trifluoromethoxy)benzamide;$

 $N-(cis-4-\{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino\} \ eyclohexyl)-3,5-difluorobenzamide;$

4-bromo-N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}cyclohexyl)-3methylbenzamide;

 $N-(cis-4-\{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino\} cyclohexyl)-3-ethylbenzamide;$

N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}cyclohexyl)-4-(trifluoromethyl)benzamide;

4-bromo-N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2vllamino}cvclohexyl)benzamide:

 $N-(cis-4-\{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino\}cyclohexyl)-4-ethylbenzamide;$

 $N- (cis-4-\{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino\} cyclohexyl)-3,5-diethoxybenzamide;$

 $N-(cis-4-\{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino\} cyclohexyl)-3-ethoxybenzamide;$

N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}cyclohexyl)-3isopropoxybenzamide;

5-bromo-N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2yllamino}cyclohexyl)nicotinamide:

5-bromo-N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}cyclohexyl)-2-furamide;

5-chloro-N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}cyclohexyl)-2furamide;

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-3-fluoro-5-(trifluoromethyl)benzamide;$

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-2,2-difluoro-1.3-benzodioxole-5-carboxamide:

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-3-ethoxybenzamide;$

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} eyclohexyl)-3-isopropoxybenzamide;$

5-bromo-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-2furamide;

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} \ eyelohexyl)-3,5-diethoxybenzamide;$

 $\label{lem:condition} 4-chloro-N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-3-(trifluoromethyl)benzamide;$

5-bromo-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-

yl]amino}cyclohexyl)nicotinamide;

3,4-dichloro-N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2vllamino}cvclohexyl)benzamide:

3-chloro-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-4-(trifluoromethoxy)benzamide;

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-4-methoxy-3-(trifluoromethyl)benzamide;

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N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}cyclohexyl)-4-methoxy-3-(trifluoromethyl)benzamide;

2-(4-chlorophenyl)-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-

yl]amino}cyclohexyl)-2-methylpropanamide;

1-(4-chlorophenyl)-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-

yl]amino}cyclohexyl)cyclopropanecarboxamide;

1-(4-chlorophenyl)-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-

yl]amino}cyclohexyl)cyclobutanecarboxamide;

yl]amino}cyclohexyl)cyclopropanecarboxamide;

2-(4-chlorophenyl)-N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-

yl]amino}cyclohexyl)-2-methylpropanamide;

1-(4-chlorophenyl)-N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-

 $yl] amino \} cyclohexyl) cyclopropanec arboxamide;\\$

yl]amino}cyclohexyl)cyclobutanecarboxamide;

1-(2,4-dichlorophenyl)-N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-

yl]amino}cyclohexyl)cyclopropanecarboxamide;

2-[3,5-bis(trifluoromethyl)phenyl]-N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-

yl]amino}cyclohexyl)acetamide;

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-4-[2,2,2-

trifluoro-1-hydroxy-1-(trifluoromethyl)ethyl]benzamide;

 $2-(4-chlorophenyl)-N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yllamino\}cyclohexyl)acetamide;\\$

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-1-(4-methylphenyl)cyclopropanecarboxamide;

2-(4-chlorophenyl)-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2vllamino)cyclohexyl)propanamide:

2-(4-chlorophenyl)-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-2-hydroxyacetamide;

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-1-(4-methoxyphenyl)cyclopropanecarboxamide;

 $N^2 \hbox{-} (3 \hbox{-chlorophenyl}) \hbox{-} N \hbox{-} (is \hbox{-} 4 \hbox{-} \{[4 \hbox{-} (dimethylamino}) \hbox{-} 5 \hbox{-} methylpyrimidin-} 2 \hbox{-} yl] amino \} \hbox{cyclohexyl}) \hbox{-} N^2 \hbox{-} methylglycinamide;}$

 $N^2\mbox{-}(3,4\mbox{-}dichlorophenyl)-N-(cis-4-\{[4\mbox{-}(dimethylamino)\mbox{-}5\mbox{-}methylpyrimidin-2-} yl]amino\}\mbox{cyclohexyl})-N^2\mbox{-}methylglycinamide;}$

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-N^2-methyl-N^2-(3-methylphenyl)glycinamide;$

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-N^2-(3-fluorophenyl)-N^2-methylglycinamide;$

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-N^2-(4-fluorophenyl)-N^2-methylglycinamide;$

 $N^2-(4-chlorophenyl)-N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\}cyclohexyl)-N^2-methylglycinamide; \\$

N²-(3,4-difluorophenyl)-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-N²-methylglycinamide;

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-N²-(3-methoxynhenyl)-N²-methylglycinamide:

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-N^2-(4-methoxyphenyl)-N^2-methylglycinamide;$

2-[(3,4-difluorophenyl)amino]-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)nicotinamide;

2-(3,4-dichlorophenoxy)-N-(cis-4-{[4-methyl-6-(methylamino)pyrimidin-2-yl]amino}cyclohexyl)acetamide;

trans-2-(4-chlorophenyl)-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)cyclopropanecarboxamide;

 $trans-2-(3-chlorophenyl)-N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl) cyclopropanecarboxamide;$

trans-2-(3,4-difluorophenyl)-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2yl]amino}cyclohexyl)cyclopropanecarboxamide;

 $trans-2-(3,4-dichlorophenyl)-N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl) cyclopropanecarboxamide; \\$

trans-2-[3,5-bis(trifluoromethyl)phenyl]-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)cyclopropanecarboxamide;

2-[(4-chlorophenyl)sulfonyl]-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)nicotinamide;

2-[(3-chlorophenyl)sulfonyl]-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yllamino}cyclohexyl)nicotinamide;

2-[(4-bromophenyl)sulfonyl]-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2yllamino)cyclohexyl)nicotinamide;

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-2-{[4-(trifluoromethyl)phenyl]sulfonyl}nicotinamide;

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-2-{[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy}acetamide;

2-[(2-chlorophenyl)sulfonyl]-N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}cyclohexyl)nicotinamide;

 $\label{lem:condition} 2-[(3-chlorophenyl)sulfonyl]-N-(cis-4-\{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino\}cyclohexyl)nicotinamide;$

3,4-dichloro-N-{cis-4-[(4-methoxy-5-methylpyrimidin-2-yl)amino]cyclohexyl}benzamide;

N-[cis-4-(4-dimethylamino-5-methyl-pyrimidin-2-ylamino)-cyclohexyl]-2-phenoxynicotinamide;

 $\label{eq:N-cyclohexyl-2-phenoxy-nicotinamide} N-[cis-4-(4-dimethylamino-6-methyl-pyrimidin-2-ylamino)-cyclohexyl]-2-phenoxy-nicotinamide;$

3-chloro-N-[cis-4-(4-dimethylamino-5-methyl-pyrimidin-2-ylamino)-cyclohexyl]-4fluoro-benzamide;

4-chloro-N-[cis-4-(4-dimethylamino-6-methyl-pyrimidin-2-ylamino)-cyclohexyl]-3fluoro-benzamide; AMENDMENT UNDER 37 C.F.R. § 1.116Attorney Docket No.: Q74855

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3-chloro-N-[cis-4-(4-dimethylamino-6-methyl-pyrimidin-2-ylamino)-cyclohexyl]-5-fluoro-benzamide;

N-[cis-4-(4-dimethylamino-6-methyl-pyrimidin-2-ylamino)-cyclohexyl]-3,4,5-trifluorobenzamide:

3-chloro-4-fluoro-N-[cis-4-(5-methyl-4-methylamino-pyrimidin-2-ylamino)-cyclohexyl]benzamide:

4-chloro-N-[cis-4-(4-dimethylamino-5-methyl-pyrimidin-2-ylamino)-cyclohexyl]-3-fluoro-benzamide:

3-chloro-N-[cis-4-(4-dimethylamino-5-methyl-pyrimidin-2-ylamino)-cyclohexyl]-5fluoro-benzamide;

N-[cis-4-(4-dimethylamino-5-methyl-pyrimidin-2-ylamino)-cyclohexyl]-3,4,5-trifluoro-benzamide;

 $\label{eq:N-condition} N-[cis-4-(4-dimethylamino-5-methyl-pyrimidin-2-ylamino)-cyclohexyl]-3, 5-difluoro-benzamide; and$

2-(3,4-difluoro-phenyl)-N-[cis-4-(4-dimethylamino-5-methyl-pyrimidin-2-ylamino)-cyclohexyl]-acetamide;

or a pharmaceutically acceptable salt thereof.

87. (currently amended): The compound according to claim 2-A compound selected from the group consisting of:

N-[(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)methyl]-3,5-bis(trifluoromethyl)benzamide;

 $N-[(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl) methyl]-3,5-dimethoxybenzamide;\\$

N-[(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)methyl]-3-(trifluoromethyl)benzamide;

4-bromo-N-[(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-

yl]amino}cyclohexyl)methyl]-3-methylbenzamide;

3,5-dichloro-N-[(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-

yl]amino}cyclohexyl)methyl]benzamide;

 $3,\!4\text{-}dichloro\text{-}N\text{-}[(cis\text{-}4\text{-}\{[4\text{-}(dimethylamino})\text{-}5\text{-}methylpyrimidin-}2\text{-}10\text{-}1$

yl]amino}cyclohexyl)methyl]benzamide;

3,5-dichloro-N-[cis-4-({[4-(dimethylamino)-5-methylpyrimidin-2-

yl]amino}methyl)cyclohexyl]benzamide;

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-2-(2-fluorophenoxy)nicotinamide;

 $N-(cis-4-\{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino\} cyclohexyl)-3,4,5-trimethoxybenzamide;$

N-(4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}cyclohexyl)-3nitrobenzamide;

 $N-(cis-4-\{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino\} cyclohexyl)-2, 2-diphenylacetamide;$

4-chloro-N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}cyclohexyl)benzamide;

3-chloro-N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}cyclohexyl)benzamide;

 $N-(cis-4-\{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino\} cyclohexyl)-3, 4-difluorobenzamide:$

 $\label{eq:N-constraint} N-(cis-4-\{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino\}cyclohexyl)-3-methylbenzamide;$

N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}cyclohexyl)-3methoxybenzamide:

 $N-(cis-4-\{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino\}cyclohexyl)-4-fluorobenzamide;$

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\}cyclohexyl)-3-methylbenzamide;$

 $N- (cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-3-methoxybenzamide; \\$

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-4methylbenzamide;

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-3, 4-difluorobenzamide;$

3-chloro-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)benzamide;

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-2-(3-methylphenoxy)nicotinamide;

2-(4-bromophenoxy)-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yllamino}cyclohexyl)nicotinamide;

2-(4-chlorophenoxy)-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2yllamino)evclohexyl)nicotinamide;

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-2-(4-fluorophenoxy)nicotinamide;

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-2-(3-fluorophenoxy)nicotinamide;

2-(2-bromophenoxy)-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)nicotinamide;

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-2-(3-methoxyphenoxy)nicotinamide;

 $N- (cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-2-(4-methoxyphenoxy) nicotinamide;$

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-2-(4-iodophenoxy)nicotinamide;

 $2-(3,4-dichlorophenoxy)-N-(cis-4-\{[5-methyl-4-(methylamino)pyrimidin-2-yl]amino\}cyclohexyl)acetamide;$

2-(2,3-dichlorophenoxy)-N-(cis-4-{[5-methyl-4-(methylamino)pyrimidin-2-yllamino}cyclohexyl)acetamide;

2-[(3,4-difluorophenyl)sulfonyl]-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yllamino}cyclohexyl)nicotinamide;

 $N-[cis-4-(\{4-[cthyl(methyl)amino]-5-methylpyrimidin-2-yl\}amino)cyclohexyl]-3, 4-difluorobenzamide;$

N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}cyclohexyl)-3,5-dimethoxybenzamide:

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-2-(2-methoxyphenoxy)nicotinamide;$

 $\label{lem:condition} $$2-(2-chlorophenoxy)-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)nicotinamide;$

2-(3-chlorophenoxy)-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2yl]amino}cyclohexyl)nicotinamide;

 $\label{lem:continuous} 2-(3-bromophenoxy)-N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)nicotinamide;$

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-2-[3-(trifluoromethyl)phenoxy]nicotinamide;$

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-2-(3-fluorophenoxy)acetamide;

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-2-(3-methoxyphenoxy)acetamide;

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-2-[3-(trifluoromethyl)phenoxylacetamide;

2-(3-chlorophenoxy)-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)acetamide;

2-[(5-chloropyridin-3-yl)oxy]-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)acetamide;

 $N-(cis-4-\{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino\} cyclohexyl)-3,4-difluorobenzamide;$

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-2-hydroxy-2-(4-methoxyphenyl) acctamide;$

2-(2,3-difluorophenyl)-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-2-hydroxyacetamide;

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-2-hydroxy-2-[3-(trifluoromethyl)phenyl]acetamide;$

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-2-\{[2-(trifluoromethyl)phenyl]sulfinyl\} acetamide;$

 $\label{lem:cis-4-lemma-2} 2-[(2-chlorophenyl)sulfinyl]-N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\}cyclohexyl)acetamide;$

2-[(3-bromophenyl)sulfinyl]-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}eyclohexyl)acetamide;

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} eyclohexyl)-3-\\ (trifluoromethyl)benzamide;$

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} eyclohexyl)-3-fluorobenzamide;$

3-bromo-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yllamino}cyclohexyl)benzamide;

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-4-\\ (trifluoromethoxy)benzamide;$

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-4fluorobenzamide;

3,4-dichloro-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)benzamide;

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-3,5bis(trifluoromethyl)benzamide:

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-3,5-dimethoxybenzamide;$

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-2, 4-difluorobenzamide;$

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-2,5-difluorobenzamide;$

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-2,3,4-trifluorobenzamide:

 $\hbox{$4$-chloro-N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-me$

yl]amino}cyclohexyl)benzamide;

3-cyano-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-

yl]amino}cyclohexyl)benzamide;

4-cyano-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yllamino}cyclohexyl)benzamide;

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-2-\\ (isopropylthio)nicotinamide;$

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-2-(propylthio)nicotinamide;

 $\label{eq:N-constraint} N-(cis-4-\{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino\}cyclohexyl)-3-(trifluoromethyl)benzamide;$

3-cyano-N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}cyclohexyl)benzamide;

4-cyano-N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-

yl]amino}cyclohexyl)benzamide;

 $N-(cis-4-\{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino\} cyclohexyl)-3-(trifluoromethyl)benzamide;$

3-cyano-N-(cis-4-{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino}cyclohexyl)benzamide;

N-(cis-4-{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino}cyclohexyl)-3methylbenzamide;

 $3-chloro-N-(cis-4-\{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-10,000], and the state of the st$

3-bromo-N-(cis-4-{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-

yl]amino}cyclohexyl)benzamide;

vl]amino}cvclohexvl)benzamide;

N-(cis-4-{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino}cyclohexyl)-3,5-dimethoxybenzamide;

 $N-(cis-4-\{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino\} cyclohexyl)-3,5-bis(trifluoromethyl) benzamide;$

3,4-dichloro-N-(cis-4-{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-

yl]amino}cyclohexyl)benzamide;

4-cyano-N-(cis-4-{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-

yl]amino}cyclohexyl)benzamide;

N-(cis-4-{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino}eyclohexyl)-4methylbenzamide;

 $N-(cis-4-\{\{4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl\}amino\} cyclohexyl)-4-fluorobenzamide;$

4-chloro-N-(cis-4-{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-

yl]amino}cyclohexyl)benzamide;

4-bromo-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-

yl]amino}cyclohexyl)benzamide;

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-4-(trifluoromethyl)benzamide;

N-(cis-4-{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino}cyclohexyl)-3-methoxybenzamide;

5-bromo-N-(cis-4-{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino}cyclohexyl)-2-furamide;

N-(cis-4-{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino}cyclohexyl)-2,6-dimethoxynicotinamide;

4-bromo-N-(cis-4-{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-

yl]amino}cyclohexyl)benzamide;

N-(cis-4-{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino}cyclohexyl)-4-(trifluoromethyl)benzamide:

4-bromo-N-(cis-4-{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino}cyclohexyl)-3-methylbenzamide:

 $N-(cis-4-\{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino\} cyclohexyl)-3-fluoro-4-methylbenzamide;$

 $N-(cis-4-\{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino\} cyclohexyl)-4-fluoro-3-methylbenzamide;$

 $N-(cis-4-\{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino\} cyclohexyl)-3-(trifluoromethoxy) benzamide;$

5-bromo-N-(cis-4-{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino}cyclohexyl)nicotinamide;

N-(cis-4-{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino}cyclohexyl)-5-methylthiophene-2-carboxamide;

 $N-(cis-4-\{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino\} cyclohexyl)-3,5-diethoxybenzamide;\\$

N-(cis-4-{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino}cyclohexyl)-3-ethoxybenzamide;

N-(cis-4-{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino}cyclohexyl)-3isopropoxybenzamide;

3,5-dichloro-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)benzamide;

4-bromo-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-3methylbenzamide:

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-4-fluoro-3-methylbenzamide;$

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-3-fluoro-4-methylbenzamide;$

 $\label{eq:N-constraint} N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-3-cthylbenzamide;$

N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}cyclohexyl)-3,5-bis(trifluoromethyl)benzamide;

 $N-(cis-4-\{\{4-(dimethylamino)-6-methylpyrimidin-2-yl\}amino\} cyclohexyl)-3-fluoro-4-\\ (trifluoromethyl)benzamide;$

 $N-(cis-4-\{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino\} eyclohexyl)-3-fluoro-5-(trifluoromethyl) benzamide;$

3-chloro-N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}cyclohexyl)-4-fluorobenzamide:

 $N-(cis-4-\{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino\} cyclohexyl)-4-fluoro-3-methylbenzamide;$

 $N-(cis-4-\{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino\} cyclohexyl)-3-fluoro-4-methylbenzamide;$

3,5-dichloro-N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}cyclohexyl)benzamide;

N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}cyclohexyl)-3-(trifluoromethoxy)benzamide;

 $N-(cis-4-\{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino\}\ eyclohexyl)-3,5-difluorobenzamide:$

4-bromo-N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}cyclohexyl)-3-methylbenzamide;

 $\label{eq:N-constraint} N-(cis-4-\{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino\}cyclohexyl)-3-cthylbenzamide;$

4-bromo-N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-

yl]amino}cyclohexyl)benzamide;

 $N-(cis-4-\{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino\} cyclohexyl)-4-ethylbenzamide;$

 $N-(cis-4-\{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino\} cyclohexyl)-3,5-diethoxybenzamide;$

 $N-(cis-4-\{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino\} cyclohexyl)-3-cthoxybenzamide;$

N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}cyclohexyl)-3isopropoxybenzamide;

5-bromo-N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}cyclohexyl)nicotinamide;

5-bromo-N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}cyclohexyl)-2furamide;

5-chloro-N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}cyclohexyl)-2furamide:

 $N-(cis-4-\{\{4-(dimethylamino)-5-methylpyrimidin-2-yl\}amino\}\ cyclohexyl)-3-fluoro-5-(trifluoromethyl)benzamide;$

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-2,2-difluoro-1.3-benzodioxole-5-carboxamide:

 $\label{eq:N-constraint} N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\}cyclohexyl)-3-ethoxybenzamide;$

5-bromo-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-2furamide;

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} eyclohexyl)-3,5-diethoxybenzamide;$

4-chloro-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-3-(trifluoromethyl)benzamide;

5-bromo-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-

 $yl]amino\} cyclohexyl) nicotina mide;\\$

3,4-dichloro-N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-

yl]amino}cyclohexyl)benzamide;

3-chloro-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-4-(trifluoromethoxy)benzamide;

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 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-4-methoxy-3-(trifluoromethyl)benzamide;\\$

N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}cyclohexyl)-4-methoxy-3-(trifluoromethyl)benzamide;

2-(4-chlorophenyl)-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-

yl]amino}cyclohexyl)-2-methylpropanamide

1-(4-chlorophenyl)-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-

 $yl]amino\} cyclohexyl) cyclopropanecarboxamide;\\$

yl]amino}cyclohexyl)cyclobutanecarboxamide;

 $1-(2,4-dichlorophenyl)-N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-methylpyri$

yl]amino}cyclohexyl)cyclopropanecarboxamide;

2-(4-chlorophenyl)-N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-

yl]amino}cyclohexyl)-2-methylpropanamide

yl]amino}cyclohexyl)cyclopropanecarboxamide;

1-(4-chlorophenyl)-N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-

 $yl] amino \} cyclohexyl) cyclobutane carboxamide;\\$

1-(2,4-dichlorophenyl)-N-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-

yl]amino}cyclohexyl)cyclopropanecarboxamide;

2-(4-chlorophenyl)-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-

yl]amino}cyclohexyl)acetamide;

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-1-(4-methylphenyl) cyclopropanecarboxamide;\\$

2-(4-chlorophenyl)-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2vllamino)-cvclohexyl)propanamide

2-(4-chlorophenyl)-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-2-hydroxyacetamide;

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-1-(4-methoxyphenyl)cyclopropanecarboxamide;

 $N^2 \hbox{-} (3-chlorophenyl)-N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\}cyclohexyl)-N^2-methylglycinamide;}$

N²-(3,4-dichlorophenyl)-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-N²-methylglycinamide;

 $N\hbox{-}(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}\} cyclohexyl)-N^2-methyl-N^2-(3-methylphenyl)glycinamide;$

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-N^2-(3-fluorophenyl)-N^2-methylglycinamide;$

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-N^2-(4-fluorophenyl)-N^2-methylglycinamide;$

N²-(4-chlorophenyl)-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-N²-methylglycinamide;

 $N^2\mbox{-}(3,4\mbox{-}difluorophenyl)-N-(cis-4-\{[4\mbox{-}(dimethylamino)-5\mbox{-}methylpyrimidin-2-yl]amino}\mbox{-}cyclohexyl)-N^2\mbox{-}methylglycinamide;}$

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-N^2-(3-methoxyphenyl)-N^2-methylglycinamide;$

2-(3,4-dichlorophenoxy)-N-(cis-4-{[4-methyl-6-(methylamino)pyrimidin-2yllamino}cyclohexyl)acetamide;

trans-2-(4-chlorophenyl)-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2yllamino}cyclohexyl)cyclopropanecarboxamide:

trans-2-(3-chlorophenyl)-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yllamino}cyclohexyl)cyclopropanecarboxamide;

trans-2-(3,4-difluorophenyl)-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yllamino}evclohexyl)evclopropanecarboxamide:

trans-2-(3,4-dichlorophenyl)-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)cyclopropanecarboxamide;

 $trans-2-[3,5-bis(trifluoromethyl)phenyl]-N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\}\ cyclohexyl)cyclopropanecarboxamide;$

2-[(4-chlorophenyl)sulfonyl]-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)nicotinamide;

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-2-\{[1-methyl-3-(trifluoromethyl)-1H-pyrazol-5-yl]oxy\} acetamide;$

N-[cis-4-(4-dimethylamino-5-methyl-pyrimidin-2-ylamino)-cyclohexyl]-2-phenoxynicotinamide;

N-[cis-4-(4-dimethylamino-6-methyl-pyrimidin-2-ylamino)-cyclohexyl]-2-phenoxynicotinamide;

3-chloro-N-[cis-4-(4-dimethylamino-5-methyl-pyrimidin-2-ylamino)-cyclohexyl]-4fluoro-benzamide;

4-chloro-N-[cis-4-(4-dimethylamino-6-methyl-pyrimidin-2-ylamino)-cyclohexyl]-3fluoro-benzamide;

3-chloro-N-[cis-4-(4-dimethylamino-6-methyl-pyrimidin-2-ylamino)-cyclohexyl]-5fluoro-benzamide;

N-[cis-4-(4-dimethylamino-6-methyl-pyrimidin-2-ylamino)-cyclohexyl]-3,4,5-trifluorobenzamide:

3-chloro-4-fluoro-N-[cis-4-(5-methyl-4-methylamino-pyrimidin-2-ylamino)-cyclohexyl]benzamide;

4-chloro-N-[cis-4-(4-dimethylamino-5-methyl-pyrimidin-2-ylamino)-cyclohexyl]-3-fluoro-benzamide;

3-chloro-N-[cis-4-(4-dimethylamino-5-methyl-pyrimidin-2-ylamino)-cyclohexyl]-5fluoro-benzamide;

N-[cis-4-(4-dimethylamino-5-methyl-pyrimidin-2-ylamino)-cyclohexyl]-3,4,5-trifluorobenzamide;

N-[cis-4-(4-dimethylamino-5-methyl-pyrimidin-2-ylamino)-cyclohexyl]-3, 5-difluoro-benzamide; and

 $\label{eq:continuous} 2\mbox{-}(3,4\mbox{-}diffluoro\mbox{-}phenyl)\mbox{-}N\mbox{-}[cis\mbox{-}4\mbox{-}(4\mbox{-}dimethylamino\mbox{-}5\mbox{-}methyl\mbox{-}pyrimidin\mbox{-}2\mbox{-}ylamino)\mbox{-}cyclohexyl]\mbox{-}acetamide;$

or a pharmaceutically acceptable salt thereof.

88.-90. (canceled).

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 (currently amended): The compound according to claim 2 A compound selected from the group consisting of:

cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}-N-(3-

iodobenzyl)cyclohexanecarboxamide;

cis-N-(2,4-dichlorobenzyl)-4-{[4-(dimethylamino)-6-methylpyrimidin-2-

yl]amino}cyclohexanecarboxamide;

cis-N-(2,5-dichlorobenzyl)-4-{[4-(dimethylamino)-6-methylpyrimidin-2-

yl]amino}cyclohexanecarboxamide;

cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}-N-(4-

methylbenzyl)cyclohexanecarboxamide;

cis-N-(3,5-dichlorobenzyl)-4-{[4-(dimethylamino)-6-methylpyrimidin-2-

yl]amino}cyclohexanecarboxamide;

cis-N-(3,5-dimethoxybenzyl)-4-{[4-(dimethylamino)-6-methylpyrimidin-2-

yl]amino}cyclohexanecarboxamide;

cis-N-(3-chlorobenzyl)-4-{[4-(dimethylamino)-6-methylpyrimidin-2-

yl]amino}cyclohexanecarboxamide;

cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}-N-[3-

(trifluoromethyl)benzyl]cyclohexanecarboxamide;

cis-N-[3,5-bis(trifluoromethyl)benzyl]-4-{[4-(dimethylamino)-6-methylpyrimidin-2-

yl]amino}cyclohexanecarboxamide;

cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}-N-(3-

methoxybenzyl)cyclohexanecarboxamide;

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cis-N-(4-chlorobenzyl)-4-{[4-(dimethylamino)-6-methylpyrimidin-2-

yl]amino}cyclohexanecarboxamide;

cis-N-(3,4-dichlorobenzyl)-4-{[4-(dimethylamino)-6-methylpyrimidin-2-

yl]amino}cyclohexanecarboxamide;

 $cis-N-(2,5-difluor obenzyl)-4-\{[4-(dimethylamino)-6-methyl pyrimidin-2-methyl pyrimidin$

yl]amino}cyclohexanecarboxamide;

cis-N-(2,3-difluorobenzyl)-4-{[4-(dimethylamino)-6-methylpyrimidin-2-

yl]amino}cyclohexanecarboxamide;

 $cis-N-(4-bromo-2-fluor obenzyl)-4-\{[4-(dimethylamino)-6-methyl pyrimidin-2-methyl pyrim$

yl]amino}cyclohexanecarboxamide;

 $cis-N-(2,4-difluor obenzyl)-4-\{[4-(dimethylamino)-6-methyl pyrimidin-2-methyl pyrimidin$

yl]amino}cyclohexanecarboxamide;

cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}-N-(3-

methylbenzyl)cyclohexanecarboxamide;

cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}-N-[2-

(trifluoromethoxy) benzyl] cyclohexane carboxamide;

 $cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\}-N-[(1R)-1-yl]amino\}-N-[(1R)-1-yl]amino\}-N-[(1R)-1-yl]amino\}-N-[(1R)-1-yl]amino]-N-[(1R)-$

phenylethyl]cyclohexanecarboxamide;

cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}-N-[(1S)-1-(4-

methylphenyl)ethyl]cyclohexanecarboxamide;

 $cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\}-N-[(1R)-1-(4-methylamino)-5-methylpyrimidin-2-yl]amino\}-N-[(1R)-1-(4-methylamino)-5-methylpyrimidin-2-yl]amino\}-N-[(1R)-1-(4-methylamino)-5-methylpyrimidin-2-yl]amino\}-N-[(1R)-1-(4-methylamino)-5-methylpyrimidin-2-yl]amino\}-N-[(1R)-1-(4-methylamino)-5-methylpyrimidin-2-yl]amino]-N-[(1R)-1-(4-methylamino)-5-methylpyrimidin-2-yl]amino]-N-[(1R)-1-(4-methylamino)-5-methylpyrimidin-2-yl]amino]-N-[(1R)-1-(4-methylamino)-5-methylpyrimidin-2-yl]amino]-N-[(1R)-1-(4-methylamino)-5-methylpyrimidin-2-yl]amino]-N-[(1R)-1-(4-methylamino)-5-methylpyrimidin-2-yl]amino]-N-[(1R)-1-(4-methylamino)-5-methylpyrimidin-2-yl]-N-[(1R)-1-(4-methylamino)-5-$

fluorophenyl)ethyl]cyclohexanecarboxamide;

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cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}-N-[(1S)-1-(4-fluorophenyl)ethyl]cyclohexanecarboxamide;

cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}-N-{(1R)-1-(3-methoxyphenyl)ethyl]cyclohexanccarboxamide;

 $\label{lem:cis-4-lemma-2-ylamino} $$-N-[(1S)-1-(3-methoxyphenyl)]$ cyclohexanecarboxamide;$

 $\label{lem:cis-4-} cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\}-N-[(1S)-1-(4-methoxyphenyl)ethyl]cyclohexanecarboxamide;$

cis-N-[(1R)-1-(4-chlorophenyl)ethyl]-4-{[4-(dimethylamino)-5-methylpyrimidin-2yl]amino}cyclohexanecarboxamide;

 $\label{lem:cis-N-[1-(4-bromophenyl)ethyl]-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino} cyclohexanecarboxamide;}$

 $cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\}-N-[(1R)-1-(4-nitrophenyl)ethyl]cyclohexanecarboxamide;$

cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}-N-[(1S)-1-(4-nitrophenyl)ethyl]cyclohexanecarboxamide;

cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}-N-(3-fluorophenyl)cyclohexanecarboxamide:

cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}-N-(3-

methoxyphenyl)cyclohexanecarboxamide;

cis-N-(3-chlorophenyl)-4-{[4-(dimethylamino)-5-methylpyrimidin-2yl]amino}cyclohexanecarboxamide;

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cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}-N-[(1S,2R)-2-phenylcyclopropyllcyclohexanecarboxamide;

cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}-N-[4-

(trifluoromethyl)phenyl]cyclohexanecarboxamide;

cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}-N-[(1R)-1-(3-methoxyphenyl)ethyl]cyclohexanccarboxamide;

 $\label{lem:cis-N-(1S)-1-(4-chlorophenyl)} $$ cis-N-[(1S)-1-(4-chlorophenyl)]-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino} cyclohexanecarboxamide;$

cis-N-benzyl-4-{[4-(dimethylamino)-6-methylpyrimidin-2-

yl]amino}cyclohexanecarboxamide;

cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}-N-(4-

fluorobenzyl)cyclohexanecarboxamide;

cis-N-(3,4-difluorobenzyl)-4-{[4-(dimethylamino)-6-methylpyrimidin-2-

yl]amino}cyclohexanecarboxamide;

cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}-N-[(1S)-1-(4methoxyphenyl)ethyl]cyclohexanccarboxamide;

 $\label{lem:cis-4-} cis-4-\{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino\}-N-[(1S)-1-(3-methoxyphenyl)ethyl]cyclohexanecarboxamide;$

cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}-N-[(1R)-1-(4-

fluorophenyl)ethyl]cyclohexanecarboxamide;

cis-N-[(1R)-1-(4-chlorophenyl)ethyl]-4-{[4-(dimethylamino)-6-methylpyrimidin-2yl]amino}cyclohexanecarboxamide;

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cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}-N-[(1S)-1-(1-naphthyl)ethyl]cyclohexanecarboxamide;

cis-N-[(1R)-1-(4-bromophenyl)ethyl]-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yllamino}evclohexanecarboxamide;

 $\label{lem:cis-N-[(1S)-1-(4-bromophenyl)ethyl]-4-[(4-(dimethylamino)-5-methylpyrimidin-2-yl]amino)-cyclohexanecarboxamide;} \\$

 $\label{lem:cis-4-} cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\}-N-\{(1S)-1-[4-(trifluoromethoxy)phenyl]ethyl\}cyclohexanecarboxamide;$

 $\label{linear_continuo} cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\}-N-\{(1R)-1-(2-fluorophenyl)ethyllevelohexanecarboxamide;$

 $\label{lem:cis-N-{(1S)-1-[3,5-bis(trifluoromethyl)phenyl]cthyl}-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexancearboxamide;}$

4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}-N-{(1S)-1-[3-(trifluoromethyl)phenyl]ethyl}cyclohexanccarboxamide;

4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}-N-{(1S)-1-[2-(trifluoromethyl)phenyl]ethyl}cyclohexanecarboxamide;

 $\label{lem:cis-4-} cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\}-N-\{(1R)-1-[4-(trifluoromethoxy)phenyl]ethyl\}cyclohexanecarboxamide;$

cis-N-[(1S)-1-(4-chlorophenyl)ethyl]-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexanecarboxamide;

cis-N-[(1R)-1-(4-chlorophenyl)ethyl]-4-{[4-(dimethylamino)-5-methylpyrimidin-2yl]amino}cyclohexanecarboxamide;

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      cis-N-[1-(4-chlorophenyl)-1-methylethyl]-4-{[4-(dimethylamino)-5-methylpyrimidin-2-
yl]amino}cyclohexanecarboxamide; and
      cis-N-{1-[3.5-bis(trifluoromethyl)phenyl]-1-methylethyl}-4-{[4-(dimethylamino)-5-
methylpyrimidin-2-yllamino}cyclohexanecarboxamide:
      or a pharmaceutically acceptable salt thereof.
      92.
             (currently amended): The compound according to claim 2-A compound
selected from the group consisting of:
      cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yllamino}-N-(3-
iodobenzyl)cyclohexanecarboxamide;
      cis-N-(2.4-dichlorobenzyl)-4-{[4-(dimethylamino)-6-methylpyrimidin-2-
yl]amino}cyclohexanecarboxamide;
      cis-N-(2.5-dichlorobenzyl)-4-{[4-(dimethylamino)-6-methylpyrimidin-2-
yl]amino}cyclohexanecarboxamide;
      cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}-N-(4-
methylbenzyl)cyclohexanecarboxamide:
      cis-N-(3,5-dichlorobenzyl)-4-{[4-(dimethylamino)-6-methylpyrimidin-2-
vllamino}cyclohexanecarboxamide;
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cis-N-(3,5-dimethoxybenzyl)-4-{[4-(dimethylamino)-6-methylpyrimidin-2-

cis-N-(3-chlorobenzyl)-4-{[4-(dimethylamino)-6-methylpyrimidin-2-

yl]amino}cyclohexanecarboxamide;

yl]amino}cyclohexanecarboxamide;

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      cis-N-[3,5-bis(trifluoromethyl)benzyll-4-{[4-(dimethylamino)-6-methylpyrimidin-2-
yl]amino}cyclohexanecarboxamide;
      cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yllamino}-N-(3-
methoxybenzyl)cyclohexanecarboxamide;
      cis-N-(4-chlorobenzyl)-4-{[4-(dimethylamino)-6-methylpyrimidin-2-
vllamino) cyclohexanecarboxamide;
      cis-N-(3,4-dichlorobenzyl)-4-{[4-(dimethylamino)-6-methylpyrimidin-2-
vllamino}cvclohexanecarboxamide;
      cis-N-(2,5-difluorobenzyl)-4-{[4-(dimethylamino)-6-methylpyrimidin-2-
yl]amino}cyclohexanecarboxamide;
      cis-N-(2.3-difluorobenzyl)-4-{[4-(dimethylamino)-6-methylpyrimidin-2-
yl]amino}cyclohexanecarboxamide;
      cis-N-(4-bromo-2-fluorobenzyl)-4-{[4-(dimethylamino)-6-methylpyrimidin-2-
yl]amino}cyclohexanecarboxamide;
      cis-N-(2,4-difluorobenzyl)-4-{[4-(dimethylamino)-6-methylpyrimidin-2-
vllamino) cyclohexanecarboxamide;
      cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}-N-(3-
methylbenzyl)cyclohexanecarboxamide;
      cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}-N-[2-
(trifluoromethoxy)benzyl]cyclohexanecarboxamide;
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 $\label{lem:cis-4-} cis-4-\{[4-(dimethylamino)-5-methylppyrimidin-2-yl]amino\}-N-\{(1S)-1-(4-methylphenyl)ethyl]cyclohexanecarboxamide;$

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 $\label{limited} cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\}-N-\{(1R)-1-(4-fluorophenyl)ethyl]cyclohexanecarboxamide;$

cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}-N-{(1R)-1-(3-methoxyphenyl)ethyl]cyclohexanccarboxamide;

 $\label{lem:cis-4-lemma-2-ylamino} $$-N-[(1S)-1-(3-methoxyphenyl)]$ cyclohexanecarboxamide;$

 $\label{lem:cis-4-} cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\}-N-[(1S)-1-(4-methoxyphenyl)ethyl]cyclohexanecarboxamide;$

cis-N-[(1R)-1-(4-chlorophenyl)ethyl]-4-{[4-(dimethylamino)-5-methylpyrimidin-2yl]amino}cyclohexanecarboxamide;

cis-N-[1-(4-bromophenyl)ethyl]-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexanecarboxamide;

 $\label{lem:cis-4-} cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\}-N-[(1R)-1-(4-nitrophenyl)ethyl]cyclohexanecarboxamide;$

cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}-N-(3-methoxyphenyl)cyclohexanecarboxamide:

cis-N-(3-chlorophenyl)-4-{[4-(dimethylamino)-5-methylpyrimidin-2yl]amino}cyclohexanecarboxamide;

cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}-N-[(1S,2R)-2-phenylcyclopropyl]cyclohexanecarboxamide;

cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}-N-[4-(trifluoromethyl)phenyl]cyclohexanecarboxamide;

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cis-N-[(1S)-1-(4-chlorophenyl)ethyl]-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}cyclohexanecarboxamide;

cis-N-(3,4-difluorobenzyl)-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yllamino)evelohexanccarboxamide:

 $\label{lem:cis-4-lemmino} cis-4-\{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino\}-N-[(1S)-1-(4-methoxyphenyl)ethyl]cyclohexanecarboxamide;$

 $\label{lem:cis-4-} cis-4-\{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino\}-N-[(1S)-1-(3-methoxyphenyl)ethyl]cyclohexanecarboxamide;$

cis-N-[(1R)-1-(4-chlorophenyl)ethyl]-4-{[4-(dimethylamino)-6-methylpyrimidin-2yl]amino}cyclohexanecarboxamide;

 $\label{lem:cis-4-} cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\}-N-[(1S)-1-(1-naphthyl)ethyl]eyelohexanecarboxamide;$

 $\label{lem:cis-N-[(1S)-1-(4-bromophenyl)ethyl]-4-{[(4-(dimethylamino)-5-methylpyrimidin-2-yl]amino)-cyclohexanecarboxamide;} \\$

cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}-N-{(1S)-1-[4-(trifluoromethoxy)phenyl]ethyl}cyclohexanecarboxamide;

 $\label{lem:cis-4-} cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\}-N-[(1R)-1-(2-fluorophenyl)ethyl]eyclohexanecarboxamide;$

 $\label{lem:cis-N-{1S}-1-[3,5-bis(trifluoromethyl)phenyl]ethyl} -4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino} cyclohexanecarboxamide;$

4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}-N-{(1S)-1-[3-(trifluoromethyl)phenyl]ethyl}cyclohexanecarboxamide;

4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}-N-{(1S)-1-[2-

(trifluoromethyl)phenyl]ethyl}cyclohexanecarboxamide; and

cis-N-[(1R)-1-(4-chlorophenyl)ethyl]-4-{[4-(dimethylamino)-5-methylpyrimidin-2yllamino}cvclohexanecarboxamide:

or a pharmaceutically acceptable salt thereof.

93.-94. (canceled).

95. (currently amended): The compound according to claim 2 A compound selected from the group consisting of:

 $N-(3,4-dimethoxyphenyl)-N'-(cis-4-\{[4-(dimethylamino)-5,6-dimethylpyrimidin-2-yl]amino\}cyclohexyl)urea; \\$

 $N-(3-chlorophenyl)-N'-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\}cyclohexyl)-N-methylurea;$

N-(3,4-dichlorophenyl)-N'-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2yl]amino}cyclohexyl)-N-methylurea;

 $\label{eq:N-constraint} $N'-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\}cyclohexyl)-N-methyl-N-(3-methylphenyl)urea;$

 $\label{eq:N-constraint} N'-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\}cyclohexyl)-N-methyl-N-(4-methylphenyl)urea;$

N'-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-N-(3-fluorophenyl)-N-methylurea;

 $\label{eq:N-(4-dimethylamino)-5-methylpyrimidin-2-yl]amino} cyclohexyl)-N-(4-fluorophenyl)-N-methylurea;$

N-(4-chlorophenyl)-N'-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-N-methylurea;

 $N-(3,4-difluor ophenyl)-N'-(cis-4-\{[4-(dimethylamino)-5-methyl pyrimidin-2-yl]amino\} cyclohexyl)-N-methyl urea;$

N'-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-N-(3-methoxyphenyl)-N-methylurea;

N'-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-N-(4-methoxyphenyl)-N-methylurea;

 $N-\{1-[3,5-bis(trifluoromethyl)phenyl]-1-methylethyl\}-N'-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\}cyclohexyl)urea;$

N-[1-(4-chlorophenyl)-1-methylethyl]-N'-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)urea;

N-[1-(4-chlorophenyl)-1-methylethyl]-N'-(cis-4-{[4-(dimethylamino)-6methylpyrimidin-2-yl]amino}cyclohexyl)urea;

N-[1-(4-chlorophenyl)-1-methylethyl]-N'-(cis-4-{[4-(dimethylamino)-5-methylpvrimidin-2-yllamino)evclohexyl)-N-methylurea;

 $N-[1-(4-chlorophenyl)-1-methylethyl]-N'-(cis-4-\{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino\}cyclohexyl)-N-methylurea;$

N-[1-(4-chlorophenyl)cyclopropyl]-N'-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yllamino}cyclohexyl)-N-methylurea;

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-N'-(2-methoxyphenyl)urea;

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-N'-(3-methoxyphenyl)urea;

 $N-(3,4-dimethoxyphenyl)-N'-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\}cyclohexyl)urea;$

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-N'-(4-fluorophenyl)urea;

 $N-(3,4-difluor ophenyl)-N'-(cis-4-\{[4-(dimethylamino)-5-methyl pyrimidin-2-yl]amino\}cyclohexyl)urea;$

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-N'-[2-(trifluoromethoxy)phenyl]urea;$

 $\label{lem:n-decomposition} N-(4-chlorophenyl)-N'-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl) urea;$

N-[3,5-bis(trifluoromethyl)phenyl]-N'-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)urea;

 $\label{eq:N-decomposition} N-(4-bromophenyl)-N'-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)urea;$

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-N'-(2-methylphenyl)urea; \\$

N-benzyl-N'-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)urea;

 $N-[2-chloro-6-(trifluoromethyl)phenyl]-N'-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yllamino\}cyclohexyl)urea;$

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-N'-(2,4,6-trichlorophenyl)urea;

 $N-(2,4-dichlorophenyl)-N'-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\}cyclohexyl)-N-methylurea;$

N'-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-N-methyl-N-[2-(trifluoromethoxy)phenyl]urea;

N-(4-chlorophenyl)-N'-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-N-ethylurea;

 $N-[3,5-bis(trifluoromethyl)phenyl]-N'-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-N-ethylurea;$

 $\label{eq:N-constraint} $$N'-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-N-(2-fluorophenyl)-N-methylurea;$

N'-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-N-ethyl-N-[2-(trifluoromethoxy)phenyl]urea;

 $\label{eq:N-cthyl-N-$

N'-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-N-ethyl-N-(3-methylphenyl)urca; and

1-(2,3-dichloro-phenyl)-3-[cis-4-(4-dimethylamino-5-methyl-pyrimidin-2-ylamino)-cyclohexylmethyl]-urea;

or a pharmaceutically acceptable salt thereof.

96. (currently amended): The compound according to claim 2 A compound selected from the group consisting of:

N-(3,4-dimethoxyphenyl)-N'-(cis-4-{[4-(dimethylamino)-5,6-dimethylpyrimidin-2yllamino}evelohexyl)urea;

N-(3-chlorophenyl)-N'-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2yl]amino}cyclohexyl)-N-methylurea;

 $\label{eq:N-continuous} $$N-(3,4-dichlorophenyl)-N'-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino)-cyclohexyl)-N-methylurea;$

 $\label{eq:N-constraint} $N'-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\}cyclohexyl)-N-methyl-N-(3-methylphenyl)urea;$

 $\label{eq:N-constraint} N'-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\}cyclohexyl)-N-methyl-N-(4-methylphenyl)urea;$

 $\label{eq:N-(3-N-(2-yl]amino)-5-methylpyrimidin-2-yl]amino} cyclohexyl)-N-(3-fluorophenyl)-N-methylurea;$

N'-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-N-(4-fluorophenyl)-N-methylurea;

 $N-(4-chlorophenyl)-N'-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-N-methylurea; \\$

 $N-(3,4-difluor ophenyl)-N'-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\}cyclohexyl)-N-methylurea;$

N'-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-N-(3-methoxyphenyl)-N-methylurea;

N'-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-N-(4-methoxyphenyl)-N-methylurea;

N-[1-(4-chlorophenyl)-1-methylethyl]-N'-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)urea;

N-[1-(4-chlorophenyl)-1-methylethyl]-N'-(cis-4-{[4-(dimethylamino)-6-methylpyrimidin-2-yl]amino}eyclohexyl)urea;

N-[1-(4-chlorophenyl)-1-methylethyl]-N'-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-N-methylurca;

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-N'-(4-fluorophenyl)urea;$

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-N'-[2-(trifluoromethoxy)phenyl]urea;$

 $N-(4-bromophenyl)-N'-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\}cyclohexyl)urea;$

N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-N'-(2-methylphenyl)urea;

 $N-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-N'-(2,4,6-trichlorophenyl)urea;$

N-(2,4-dichlorophenyl)-N'-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2yllamino}cyclohexyl)-N-methylurea;

 $N'-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-N-methyl-N-lexifuoromethoxy) phenyllurea;$

N-(4-chlorophenyl)-N'-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-N-ethylurea;

 $N-[3,5-bis(trifluoromethyl)phenyl]-N'-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\}cyclohexyl)-N-ethylurca;$

N'-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)-N-ethyl-Nphenylurea;

 $N'-(cis-4-\{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino\} cyclohexyl)-N-ethyl-N-(3-methylphenyl)urea; and$

 $1-(2,3-dichloro-phenyl)-3-[cis-4-(4-dimethylamino-5-methyl-pyrimidin-2-ylamino)-\\ cyclohexylmethyl]-urca;$

or a pharmaceutically acceptable salt thereof.

97.-100. (canceled).

101. (currently amended): The compound according to claim 2 is: A compound that is 4-chloro-N-(cis-4-{[4-(dimethylamino)-5-methylpyrimidin-2-yl]amino}cyclohexyl)benzenesulfonamide;

or a pharmaceutically acceptable salt thereof.

102.-112. (canceled).